

GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run On: July 11, 2002, 22:11:01 ; Search time 4136.95 seconds
(without alignments)
17249.300 Million cell updates/sec

Title: US-09-605-783A-110
Perfect score: 3410

Sequence: 1 gggaaccagcctgcacgcgc.....aaaaaaaaaaaaaaaaaaaa 3410

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1797656 seqs, 10463268293 residues

Total number of hits satisfying chosen parameters: 3595312

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

GenEmbl.*

1: gb_ba.*

2: gb_hgt.*

3: gb_in.*

4: gb_om.*

5: gb_ov.*

6: gb_pat.*

7: gb_ph.*

8: gb_pl.*

9: gb_pr.*

10: gb_ro.*

11: gb_sts.*

12: gb_sy.*

13: gb_un.*

14: gb_vi.*

15: em_ba.*

16: em_fun.*

17: em_hum.*

18: em_in.*

19: em_mu.*

20: em_om.*

21: em_or.*

22: em_ov.*

23: em_pat.*

24: em_ph.*

25: em_pl.*

26: em_ro.*

27: em_sts.*

28: em_un.*

29: em_vi.*

30: em_htg_hum.*

31: em_htg_inv.*

32: em_htg_other.*

33: em_htgo_inv.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
------------	-------	-------------	--------	----	-------------

ALIGNMENTS

RESULT	1	AXI06329	Sequence 110 from Patent WO0125272.	3410 bp	DNA	linear	PAT 30-APR-2001
LOCUS	AXI06329	Sequence 110 from Patent WO0125272.		3410 bp	DNA	linear	PAT 30-APR-2001
DEFINITION	AXI06329	Sequence 110 from Patent WO0125272.		3410 bp	DNA	linear	PAT 30-APR-2001
ACCESSION	AXI06329	Sequence 110 from Patent WO0125272.		3410 bp	DNA	linear	PAT 30-APR-2001
VERSION	AXI06329.1	GI:13922014		3410 bp	DNA	linear	PAT 30-APR-2001
KEYWORDS	human.			3410 bp	DNA	linear	PAT 30-APR-2001
SOURCE	human.			3410 bp	DNA	linear	PAT 30-APR-2001
ORGANISM	Homo sapiens			3410 bp	DNA	linear	PAT 30-APR-2001
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			3410 bp	DNA	linear	PAT 30-APR-2001
AUTHORS	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			3410 bp	DNA	linear	PAT 30-APR-2001
TITLE	Xu, J., Skeiky, Y.A., Reed, S.G. and Cheever, M.A.			3410 bp	DNA	linear	PAT 30-APR-2001
JOURNAL	Compositions and methods for therapy and diagnosis of prostate cancer			3410 bp	DNA	linear	PAT 30-APR-2001
FEATURES	Patent: WO 0125272-A 110 12-APR-2001;			3410 bp	DNA	linear	PAT 30-APR-2001
source	CORIXA CORPORATION (US)			3410 bp	DNA	linear	PAT 30-APR-2001
Location/Qualifiers	1..3410			3410 bp	DNA	linear	PAT 30-APR-2001
BASE COUNT	667 a 1014 c 945 g 783 t			3410 bp	DNA	linear	PAT 30-APR-2001
ORIGIN	1 others			3410 bp	DNA	linear	PAT 30-APR-2001

Query Match 100.0%; Score 3409.6; DB 6; Length 3410;									
Best Local Similarity 100.0%; Pred. No. 0;									
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;									
Qy	1	gggaaccagcctgcacgcgtggtctccggtgacagccgcgcctctggccagagatctga	60						
Db	1	GGGAACACAGCTGCACGCGTGGCTCCGGGTGACAGCGCGCGCTCGGCACGAGTCTGA	60						
Qy	61	gtgatagacgtgtcccccactaggtgtcccccacagcagcaggtgttgagcatggctgag	120						
Db	61	GTGATGAGACGTGTCCCACTGAGTGTCCCAACAGCAGAGGTGTGAGCATGGGCTGAG	120						
Qy	121	aagctggaccggcaccacaaaggctggcagaaatgggcctggctgattctctaggcagtt	180						
Db	121	AAGCTGGACCGGCACCAAGGGTGGCAGAAATGGGGCGCTGGCTGATTCTTAGGCAGTT	180						
Qy	181	ggcggcagaagagagagccgcagcttctggagcagacgagacgagcagattctg	240						
Db	181	GGCGGCAGCAAGAGAGAGAGCGCGCAGCTTCTGGAGCAGAGCGGACGAGAGTTCG	240						
Qy	241	gagtgctgaacggcccccttgagccctaccgcctggccactatggtccagagggctgtg	300						
Db	241	GAGTGCCCTGAACGGCCCCCTGAGCCCTACCGCGCTGCGCCACATATGTCACAGGCTGTG	300						
Qy	301	ggtgagccgctgtgcggcaccggaaagccagctcttgctgtaacotgttaacott	360						
Db	301	GGTGAGCGCGCTGTGGGGCACCGAAGGCCAGCTCTTGTGTCAACCTGTAACTT	360						
Qy	361	tggcctgagagtggtttgcccgcagcagcatcacctatgtccgcctctgtctggaagt	420						
Db	361	TGGCCTGAGAGTGTTTGGCCGCGAGCATCACCTATGTGCCGCTCTGTCTGCTGGAGT	420						
Qy	421	gggggtgagagagaagttcatgaccatggtgtgctgggcattgggtccagtgctggccctgggt	480						
Db	421	GGGGGTAGAGGAGAAGTTTCATGACCATGTTGTGTGGCATTTGGTCCAGTGTGGCCCTGGT	480						
Qy	481	ctgtgtcccgctctaggtctagcagcagtgaccactggcgtgagcagctatggccgcgcgcg	540						
Db	481	CTGTGTCCCGCTCTAGGCTCAGGCACGTGACACTGGCGTGGACGCTATGGCCGCCCGCG	540						
Qy	541	gcccttcactggcactgtccttggcactcgtcgtgagcctctttctcatcccaaggcc	600						
Db	541	GCCCTTCATCTGGGCACTGTCTTTGGGCATCTCTGTGAGCCTCTTCTCATCCCAAGGGC	600						
Qy	601	cggctggctagcagggctgtgtgcccggatccccaggccccctggagctggcactgctcat	660						
Db	601	CGGCTGGCTAGCAGGGCTGTGTGCCGGATCCCAGGCCCTGGAGCTGGCACTGCTCAT	660						
Qy	661	cctggcgctgggctgtgagacttctgtgccaggtgtgtcttcaactcactggagggcct	720						
Db	661	CCTGGCGCTGGGCTGTGTGGAATCTGTGGCCAGGTGTGCTTCACTCCACTGGAGGCCCT	720						
Qy	721	gctctctgacctcttccgggaccggaccactgtgcgcaggccctactctgtctatgacct	780						
Db	721	GCTCTCTACCTCTTCCGGGACCCGACCACTGTCCGAGGCCCTACTCTGTCTATGCTT	780						
Qy	781	catgataagcttggggctcctgggtactcctcctcctcctcctcctcctcctcctcctcct	840						
Db	781	CATGATAGCTTGGGGCTGCTGGGCTACTCTCTGCTGCCATTTGACTGGGACACCAAG	840						
Qy	841	tgccttgccccctacctgggcacccagagaggtgctcttggcctgtgcacccctcat	900						
Db	841	TGCCCTGGCCCCCTTACTTGGCACCCAGGAGAGTGGCTCTTTGGCCTGCTCACCCCTCAT	900						
Qy	901	cttctcactcgtctagcagccacactgctggtggctgagagcagcagcgtgggccccac	960						
Db	901	CTTCTCACTGCTGCTGAGCAGCACACTGCTGGTGGCTGAGAGGACGCGCTGGGCCCCAC	960						
Qy	961	cgagccagcagaaggctgtcgccccctcctgtgtcgcacactgctgtccatgtccgggc	1020						
Db	961	CGAGCCACGACAGAGGGCTGTGGGCCCTCTCTGTGCCCCCACTGCTGTCTCATGCCGGGC	1020						

Qy	1021	cggcttggtttccggaaacctggggccctgtctcccgggtgaccagctgtgtgccc	1080						
Db	1021	CGGCTTGGTTTCCGGAACCTGGCGCCTGCTTCCCAGGTGCACCACTGTCTGCCG	1080						
Qy	1081	catgcccgcacccctgcccgcctcttctggtgctgagctgtgcagctggtgacatcat	1140						
Db	1081	CATGCCCGCACCTTGGCGCGGCTCTTCTGTGGCTGAGCTGTGCAGCTGATGSCACTCAT	1140						
Qy	1141	gaccttcacgtgttttacacggattctggggaggggctgtaccagggcgctgccag	1200						
Db	1141	GACCTTCACGCTGTATTTACACGATTTCTGTGGCGAGGGCTGTACCAAGGGCTGCCAG	1200						
Qy	1201	agctgagccggcagcagcccgagacactatgatgaagcgttcgagatggcagcct	1260						
Db	1201	AGCTGAGCCGGGCACCGAGGCCCGGAGACACTATGATGAAGGGCTTCGGATGGCAGCCT	1260						
Qy	1261	ggggctgttctgagctgcccacatctccctgggtctctctctgttgatggacggctggt	1320						
Db	1261	GGGGCTGTCTTCCAGTGCAGTGCCTTCCCTGCTTCTCTCTGCTCATGGACCGGTGGT	1320						
Qy	1321	gagcgattcggcactcgagcagctctatttggccagctgtggcagcttccctgtgctgc	1380						
Db	1321	GCAGCGATTCGGCACCTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTCCCTGTGGCTGC	1380						
Qy	1381	cgggtgccacatgctgtcccacagctgtgcccgtgtgacagcttccagccgcctcaccgg	1440						
Db	1381	CGGTGCCACATGCTGTCCACAGTGTGGCCGTGTGACAGCTTACAGCCGCCCTCACCGG	1440						
Qy	1441	gttcaactctcagcctcgagatcctgcctacacactggcctcctctaccacaggga	1500						
Db	1441	GTTCACTTCTACGCCCTGCAGATCCTGCCCTACACACTGGGCTCCTCTACCAACCGGA	1500						
Qy	1501	gaagcaggtgttctccccaataaccaggggacactggaggtgctagcagtgagagacag	1560						
Db	1501	GAAGCAGGTTTCTCTGCCCAATACCAGGGGACACTGGAGGTGCTAGCAGTGAGGACAG	1560						
Qy	1561	cctgatgaccagcttctgcccagccctaagcctggagctccttcccttaattggacacgt	1620						
Db	1561	CCTGATGACCAGCTTCTTGCAGGCCCTAAGCTGGAGTCCCTTCCCTAATGGACACGT	1620						
Qy	1621	gggtgtgagggcagtggtcctgcctcaccactcaccgcgctcctcggggcctctgcctg	1680						
Db	1621	GGTGTGGAGGAGGTGGGCTGTCTCCACCTCCACCGCGCTCTGCGGGGCCCTTGCCTG	1680						
Qy	1681	tgatgtctccgtacgtgtggtgggtgagccacacgagccaggggtggttccgggccc	1740						
Db	1681	TGATGTCTCCGTACGTGTGTGGTGGTGAGCCCCACCGAGGCCAGGGTGTTCGGGCCG	1740						
Qy	1741	gggcatctgctggacctgcctcctgcctgagtagtgcttctcctgctcctcaggtggccc	1800						
Db	1741	GGGCATCTGCTGGACCTCGCCATCTCGGATAGTGTCTTCTCTGTCCAGGTGGCCCC	1800						
Qy	1801	atccctgtttatgggtccattgtccagctcagcagctgtcactgctctatatggtgtc	1860						
Db	1801	ATCCCTGTATTGGGCTCCATTTGTCCAGCTCAGCCAGCTGTCTACTTCTATATGTTGTC	1860						
Qy	1861	tgcgcagggcctgggtgtgtgtcgccttactttgtgtacacaggttagtatattgacaag	1920						
Db	1861	TGCCCGAGGCTGGGTCTGGTCTGCCATTTACTTTGTGTACACAGGTAGTATTGACAAGAG	1920						
Qy	1921	cgaactggccaaataactcagcgtagaaaaactccacacacattgggttggagggcctgtcct	1980						
Db	1921	CGACTTGGCCAAATACCTACGCTAGAAAACTTCCAGCACATTTGGGTGGAGGCCCTGCTT	1980						
Qy	1981	caatgggtcccagctcccgcctcctgtttagccccaatggggctgcgggctggccgcag	2040						
Db	1981	CACTGGGTCCCAGCTCCCGCTCTCTGTTAGCCCCATGGGGCTGCGGGCTGGCGCCAGT	2040						
Qy	2041	tctgtgtgtgcacaaagtaatgtgggtctctgtgtgccacccctgtgtgtgagtgagta	2100						
Db	2041	TTCTGTGTGTCGCAAGTAATGTGGCTCTCTGTGTGCCACCTCTGTCTGTCTGAGTGTGCTA	2100						

QY	2101	gctgcacagctgggggtggggcgctccctctctctcctctctctccccagtctcttagggctgctcg	2160
Db	2101	GCTGCACAGCTGGGGGTGGGGCGTCCCTCTCCTCTCTCCCCAGTCTCTAGGGTGCCGTG	2160
QY	2161	actggaggcctccaagggggttcaagttctgaattatatacaggaggagccacaagggtccc	2220
Db	2161	ACTGGAGGCCCTCCAAAGGGGTTTCAGTCTGGACTTATACAGGGAGGCCACAAGGGCTCC	2220
QY	2221	atgcaactggaatcgggggactctgcagggtggattaccaggagctcagggttaaacagctagc	2280
Db	2221	ATGCACTGGAATCGGGGACTCTGCAGGTGGATTACCAGAGCTCAGAGGTTAACAGCTAGC	2280
QY	2281	ctctagttagacacacacctagagaagggttttttgggagctgaataaaactcagtcacotg	2340
Db	2281	CTCTAGTTGAGACACACACTAGAGAAGGGTTTTTGGAGCTCAATAAATCAGTCACTCATG	2340
QY	2341	gtttcccatctctaagccccttaacctcagcttcttgtttaatgtagctcttgatgggag	2400
Db	2341	GTTTCCCATCTTAGGCCCTTTAACCTGCAGCTTGTTTAATGTAGCTTTGTCATGGGAG	2400
QY	2401	tttettaggatgaacactctccatcgggtatttgaacatatgacttatttgtagggggaaga	2460
Db	2401	TTTCTAGGATGAACACTCTCCTCATGGATTTGAACATATGACTTATTTGTAGGGGAAGA	2460
QY	2461	gtctgagggggaacacacaagaacagggtccoctcagccacagcactgtcttttgcgt	2520
Db	2461	GTCTTGAGGGGCAACACAGAAGACAGAGTCCOCTCAGCCACAGCACACTGTCTTTTGTCT	2520
QY	2521	gatcacccccctctacctttkatcagatgtgccgtgttgctctctctctctcttgcacatca	2580
Db	2521	GATCACCCCCCTCTTACCCTTTTATCAGAGATGTGCCCTGTGGTCCCTCTCTGTGCCATCA	2580
QY	2581	cagagacacaggcatttaaataattaactatttattaaacaaagtagaagggaatccat	2640
Db	2581	CAGAGACACAGGCATTTAAATATTTAACTTATTTATTAACAAAGTAGAAGGGATCCAT	2640
QY	2641	tgctagttttctgtgtggtgctaaatttbggtgaggtgggggtagccccaacatca	2700
Db	2641	TGCTAGCTTTTCTGTGTGTGCTGAATATTTGGGTAGGGTGGGGATGCCCAACAATCA	2700
QY	2701	ggtccctcgatagctggtcattggcctgcatctgccaaaatctctctctctctctctgggt	2760
Db	2701	GGTCCCTGAGATAGCTGTGTCAITGGGCTGTGATGTGCCAGAACTTCTCTCTCTGGGGT	2760
QY	2761	ctggccccccaaaaatgctaaccacaggaccttggaaattctactcatccocaaatgataat	2820
Db	2761	CTGGCCCCCAAAAATGCTTAACCCAGGACCTTGGAAATCTACTCATCCCAAAATGATAAT	2820
QY	2821	tccaaatgtctgttaccaaaggttaggggttgaaggaaggtagagggtgggggttcagggt	2880
Db	2821	TCCAATATGCTGTACCACAAAGTTAGGGTGTGAAGGAAGGTAGAGGGTGGGGCTTCAGGT	2880
QY	2881	ctcaaggctctccctaaccaccccctctctcttggccacagctggttcccccaacttcca	2940
Db	2881	CTCAACGGCTTCCCTTAACCAACCCCTTCTCTGTGGCCACAGCTGGTTCOCCCCCATTTCCA	2940
QY	2941	ctccctctactctctctaggtggctgtatgaagggaactgcccacaaatttccccctaac	3000
Db	2941	CTCCCCCTACTCTCTCTAGGACTGGGCTGATGAAGGACACTGCCCAAAATTTCCCTTACC	3000
QY	3001	cccaactttccccctaccccccaactttccccaccagctctccacaaacctgtttgagctact	3060
Db	3001	CCCAACTTTCCCCCTACCCCCAACTTTGCCACCAGCTCCACAACCCCTGTTTGGAGCTACT	3060
QY	3061	gcaggaccagaagcacaaagtgcggtttcccaagcctttgtcatactcagccccccagagt	3120
Db	3061	GCAGGACCAAGACACAAATGCGGTGTTCCAAAGCCCTTTGTCTCATCTFCAGCCCCCAGAGT	3120
QY	3121	atatctgtcttggggaattctcacacagaaactcagagcacccccctgcttgagctaaag	3180
Db	3121	ATATCTGTGCTTGGGGAATCTCACACAGAAACTCAGGAGACCCCCCTGCCGTAGCTTAAGG	3180
QY	3181	gaggtcttatctctcaggggggggtttaagtgccttttgcaataatgscgtcttatttatt	3240

Db	3181	GAGGCTCTATCTCTCAGGGGGGTTAAAGTGCCTTTGCAATAATGTGCTTATTATT	3240
Qy	3241	tagcgggtgaatatcttatactgaagtgaacacagataatgtttatgtga	3300
Db	3241	TAGCGGGGTGAATATTTTATCTGTAAGTGAGCAATCAGATATAATGTTTATGGTGACA	3300
Qy	3301	aaattaaaggcttcttatgtttataaaaaaataaaaaaataaaaaa	3360
Db	3301	AAATTAAAGGCTTCTTATATGTTTAAAAAATAAAAAAATAAAAAA	3360
Qy	3361	aaaaaaaraaaaaaataaaaaaataaaaaaataaaaaa	3410
Db	3361	AAAAAARAAAAAATAAAAAAATAAAAAAATAAAAAA	3410
RESULT 2			
AX140620	AX140620	3410 bp	linear
LOCUS	Sequence 110 from Patent WO0134802.		PAT 31-MAY-2001
DEFINITION	AX140620		
ACCESSION	AX140620.1	GI:14280737	
VERSION			
KEYWORDS	human.		
SOURCE	ORGANISM Homo sapiens		
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
AUTHORS	Xu, J., Dillon, D.C., Mitcham, J.L., Harlocker, S.L., Jiang, Y., Reed, S.G., Kalos, M.D., Retter, M.W., Stolk, J.A., Day, C.H., Skeiky, Y.A. and Wang, A.		
TITLE	Compositions and methods for the therapy and diagnosis of prostate cancer		
JOURNAL	Patent: WO 0134802-A 110 17-MAY-2001;		
FEATURES	CORIXA CORPORATION (US)		
source	Location/Qualifiers		
	1. 3410		
	/organism="Homo sapiens"		
	/db xref="taxon:9606"		
BASE COUNT	667 a 1014 c 945 g 783 t	1 others	
ORIGIN			
Query Match	100.0%; Score 3409.6; DB 6; Length 3410;		
Best Local Similarity	100.0%; Pred. No. 0;		
Matches 3410;	Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
Qy	1	gggaaccagctgcacgcgtggtctccggtgacagccgcgcctcgccagatctga	60
Db	1	GGGAACCAAGCTGCACGCGTGGCTCGGGGTGACAGCGCGCGCTCGGCAGATCTGA	60
Qy	61	gtgatgagcgtgccccactgagtgccccacagcagcaggtgttgacatggcgtgag	120
Db	61	GTGATGAGACGTGTCCCACTGAGGTGCCCAACAGCAGCAGGTGTTGAGCATGGGTGAG	120
Qy	121	aagctggaccgcgcaccaaaaggctggcagaaatggcgctgctgattcctaggcagtt	180
Db	121	AAGCTGACCCGGCACCAAGGGCTGGCAGAAATGGGCGCCTGGCTGATTCTTAGGCAGTT	180
Qy	181	ggcggcagcagaggaggagcgcgcagcttctggagcagagccgacagcagcagttctg	240
Db	181	GGCGGCAGCAGGAGGAGAGGCGCAGCTTCTGGAGCAGAGCCGACGAGCAGGTCTCTG	240
Qy	241	gagtcgtgaacggccccctgagccctaccgcctggcccatatagttccagagcgtgtg	300
Db	241	GAGTGCCTGAACGGCCCCCTGAGCCCTTACCGCCTGGCCGCTATGGTCCAGAGGCTGTG	300
Qy	301	ggtgagccgcctgctgcgcgcacgcgaaagccagcttctgctgttcaacctgctaacct	360
Db	301	GGTGAGCCGCTGCTGGGCGACCGAAAGCCAGCTTCTGCTGGTCAACCTGCTAACCTT	360
Qy	361	tggcctggaggtgtgtttggccgcaggcatcacctatgtgcgcctctctgctggaagt	420

Db 361 TGGCCTGGAGGTGTTGGCCGCGAGCATCACTATGTGCCGCTCTGTCTGTGGAGT 420
QY 421 gggggtagagagaagtattacattagcattggtgctgggcattggtccagtgtgggctgggt 480
Db 421 GGGGGTAGAGGAGAAGTTTCATGACCATGTGTCTGGGGATTGGTCCAGTGTGGGCTGGT 480
QY 481 ctgtgtcccgctctcctagctcagccagtgaccactggcgtggagcgtatggccgcgcgg 540
Db 481 CTGTGTCCCGCTCTTAGGCTCAGCCAGTACCACTGGCGTGGAGCGTATGGCCGCGCCG 540
QY 541 gcccttcattcgggcactgctccttggcaccatcctgctgagcctcttctcaccagggc 600
Db 541 GCCCTTCATCTGGCACTGTCTTGGGCATCTGCTGAGCCTCTTCTCATCCCAAGGC 600
QY 601 cggctggctagcagggctgtgtgcccggatcccagggccctggagctggcactgctcat 660
Db 601 CGGCTGGCTAGCAGGGCTGTGTGCCCGGATCCAGGCCCTCGAGCTGSCACTGCTCAT 660
QY 661 cctgggctgggctgtgtgactctgtggccagggtgtgtcttcaactccactggagccct 720
Db 661 CCTGGGCTGGGCTGTGTGACTTCTGTGGCCAGGTGTCTTCACTCCACTGGAGGCCCT 720
QY 721 gctctcgaactcttcgggaacccgacacactgtccagggcctactctctctatgctt 780
Db 721 GCTCTTGACCTCTTCCGGGACCCGGACCACTGTGCGCAGGCCCTACTCTGTCTATGCCCT 780
QY 781 catgatcagttctggggctgctgggctacctcctcctgctgcccattgactgggacacag 840
Db 781 CATGATCAGTCTTGGGGCTGCCTGGGCTACCTCTGCTGCCATTGACTGGGACACAG 840
QY 841 tgccttgcccctacactgggaccccgaggagtgctcttggcctgtcaccctcat 900
Db 841 TGCCCTGGCCCTTACCTGGGSCACCCAGAGGAGTGTCTTGGCTGTCTACCCCTCAT 900
QY 901 ctctcactcgttagcagccactgctggtggctgagggagcagcgtgggcccac 960
Db 901 CTTCCTCACTGCTGTACAGCCACACTGTGTGGTGGCTGTAGGAGCAGCGTGGGCCCCAC 960
QY 961 cgaagcagcagaagggtgtcggcccctccttgtgcccacactgtgtccatgcccggc 1020
Db 961 CGAGCCAGCAGAAGGGTGTGGGCCCTCTCTGTGTCGCCCTACTGTCTCATGTCCATG 1020
QY 1021 ccgcttgcttccgaaactgggcgcccctgtctcccccggctgcacacagtgctgccc 1080
Db 1021 CCGCTTGGCTTTCGGGAACCTGGGCGCCCTGTCTCCCGGCTGCACAGTGTGCTGCC 1080
QY 1081 catgccccgacacctgcgcggtctctcgtggtgagctgtgagctggatggcactcat 1140
Db 1081 CATGCCCGCACCTGCGCGGCTCTCTGTGGCTGAGCTGTGCACTGGATGGCACTCAT 1140
QY 1141 gacctcaogctgttttacacgatttcgtggcgagggtgttacagggcgtgcccag 1200
Db 1141 GACCTTCACGCTGTTTACACGGATTTCTGTGGCGAGGGGCTGTACAGGGGCTGCCAG 1200
QY 1201 agctgagccgggacccagggccggaacactatgatgaagcgttcggatggcagcct 1260
Db 1201 AGCTGAGCCGGGACCCAGGCGCGAGACACTATGATGAAGGCTTCGGATGGGACGCT 1260
QY 1261 ggggctgttctcagtgcccatcctcctgggtcttctcctgtgtgcatgacccggctgg 1320
Db 1261 GGGGCTGTCTGCAGTGCCTATCTCCCTGGTCTCTCTCTGTGTCATGACCGGCTGGT 1320
QY 1321 gcagcattcggcactcgagcagctctatttggccagtggtggcgcttccctgtgctgc 1380
Db 1321 GCAGGATTCGGCACTCGACAGTCTATTATGGCCAGTGTGGCAGCTTCCCTGTGGCTGC 1380
QY 1381 cgggtcacatgctgtcccacagtgccgtgggtgacagcttcagccgcccctcacgg 1440
Db 1381 CGGTGCCACATGCTGTCCCACAGTGTGGCGGTGGTGACAGCTTCAGCCGCCCTCACCG 1440
QY 1441 gttcacctctcagccctcgagctctctgcccactacacactggcctcctctaccacggga 1500
Db 1441 GTTCACCTTCTACGCCCTGCAGATCTCTGCCCTACACACTGCGCTCCCTCTACCAACCGGGA 1500

QY 1501 gaagcaggtgttctctgcccataaccagggggacactggaggtgctagcagtgaggacag 1560
Db 1501 GAAGCAGGTGTTCTTGCCCAATACCAGGGGACACTGGAGGTGCTAGCAGTGAGGACAG 1560
QY 1561 cctgatgaccagcttctcagggccctaagcctgagctccctcccttaataaggacagt 1620
Db 1561 CCTGATGACAGTCTCTGCCAGGCCCTAAGCTGGAGCTCCCTTCCTTAATGGACAGT 1620
QY 1621 ggtgctggaggcagtggtgctcctcactccacccgcctctgctggggcctctgctg 1680
Db 1621 GGTGCTGGAGGAGTGGCTGTCCACCTCCACCGCGCTCTGCGGGGCTCTGCGCTG 1680
QY 1681 tgatgtccctacgtgtgtggtgggtgagccacccagggccaggtgtccgggccc 1740
Db 1681 TGATGTCTCGTACGTGTGTGGTGGGTGAGCCACCCAGGCCAGGGTGTTCGGGCCG 1740
QY 1741 gggcatctgctggaactcgcctcctgatactgcttctcctcctcctcctcctcctc 1800
Db 1741 GGGCATCTGGCTGGACTCGCCATCTCTGGATAGTGGCTTCTCTGTGCCAGGTGGCCCC 1800
QY 1801 atccctgtttatgggtccattgtccagctcagcagctgtcactgacctatattggtgc 1860
Db 1801 ATCCCTGTTTATGGGCTCCATTGTCCAGCTCAGCCAGTGTCTACCTATATGTGTG 1860
QY 1861 tgcgcagggcctggtgtgtgctgaccttactttgtctacacaggtadatttgacaagag 1920
Db 1861 TGCCGAGGGCTGGGTGTGTGCTGCCATTACTTTGTGTACACAGGTAGTATTGTACAAG 1920
QY 1921 cgaactggccaaatactcagcgtagaaaactccagcacattcgggtggagggcctcct 1980
Db 1921 CGACTTGGCCAAATACTCAGCGTAGAAAACCTTCACGACATTTGGGGTGGAGGCCCTGCCT 1980
QY 1981 cactgggtcccagctcccgcctcctgttagcccatggggtccgggctggcgccag 2040
Db 1981 CACTGGGTCCCAGCTCCCCGCTCTCTGTTAGCCCCATGGGCTGCGCGGCTGCGCGCCAGT 2040
QY 2041 ttctgtgtgcacaaagtaagtgtggtcctgtgtgcacccctgtgtgtgtgaggtgagta 2100
Db 2041 TTCTGTGTGTGCCAAAGTAATGTGGCTCTCTGTGTGCCACCTGTGTGTGTGTGTGTGT 2100
QY 2101 gctgcacagctggggtggggtcctcctcctcctcctcctcctcctcctcctcctc 2160
Db 2101 GCTGCACAGTGGGCGCTGGGCGCTCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
QY 2161 actggggcctcccaagggggttccagctggtgacttatcacagggagggccagggctcc 2220
Db 2161 ACTGGAGGCTTCCAAAGGGGTTTTCAGTCTGGACTTATACAGGGAGGCCAGAGGGTCC 2220
QY 2221 atgcaactggaatcggggactctgcaggtgattaccaggtcaggtttaaagcagctagc 2280
Db 2221 ATGCACTGGAATCGGGGACTCTGCAGTGGATTACCCAGGCTCAGGGTTAACAGCTAGC 2280
QY 2281 ctctagttgagacacacacttagaagggtttttggagctgaataaactcagtcacctg 2340
Db 2281 CTCTAGTTGAGACACACCTTAGAAGAGGGTTTGGGAGCTGAATAAATCAGTCACTG 2340
QY 2341 gtttcccatcttaagccccttaacctgcgcttcttaagttagctcttgaatgagggag 2400
Db 2341 GTTTCACATCTCTAAGCCCCCTTAACCTGCAGCTCTGTTTAACTAGTCTCTGCAATGGAG 2400
QY 2401 ttctaggtgaaacactcctcctcatggattgaacatactattttagggggaaga 2460
Db 2401 TTTCTAGGATGAACACTCTCTCCATGGGATTTGACATATGACTTATTGTAGGGGAGA 2460
QY 2461 gtcctgaggggacacacacacacacacacacacacacacacacacacacacacacac 2520
Db 2461 GTCCCTGAGGGGCAACACACAAAGAACACAGTCCCTTCAGCCACACAGCACTGTCTTTT 2520
QY 2521 gatccacccccctcttaaccttttatcaggtgtggcctgtgtgctcctctctgtgcca 2580
Db 2521 GATCCACCCCCCTCTTACCTTTTATCAGGATGTGGCCTGTGTGTCTCTGTGTGCTTCA 2580

QY 2581 cagagacacaggcattaaattatttaacttatttatttaacaagtagaagggaatccat 2640
Db CAGAGACACAGGcattTAAATATTAACTTATTATTACAAAGTAGAAGGAATCCAT 2640
QY 2641 tgtagctttctgtgtgtctataatttgggttaggtggtggatccccacaatca 2700
Db TGCTAGCTTTCTGTGTGTGTCTATATTGGTAGGTAGGTGGGATCCCAACAATCA 2700
QY 2701 ggtccctgagatagctgggtcattggctgatcatcgccagaatcttcttctcgggt 2760
Db GTTCCCTGAGATAGCTGGCTCATTTGGCTGATCATTGCCAGAATCTCTCTCTGGGT 2760
QY 2761 ctggcccccaaatgcttaaccaggaccttggaatttactcatcccaaatgataat 2820
Db CTGGCCCCCAAAATGCTTAACCCAGGACCTTGGAATTTCTACTCATCCAAATGTAAT 2820
QY 2821 tcaaatgctgttaaccaaggttaggtgttgaaaggaagtagaggtggtggtcaggt 2880
Db TCCAAATGCTGTTAACCAAGGTTAGGTGTGAAGGAAGTAGAGGTGGGGCTTCAGGT 2880
QY 2881 ctcaacggtctccctaaccacccctctctctggccagctggttcccccaactcca 2940
Db CTCAAGGCTTCCCTAACCAACCCCTCTCTCTGGCCAGCTGGTTCCCCCCTTCCA 2940
QY 2941 ctccctctactctctaggaactggctgatgaaggcactgccccaaatttccctacc 3000
Db CTCCCTCTACTCTCTAGGACTGGCTGATGAAGCAGCTGCCAAATTTCCCTACC 3000
QY 3001 ccaaatctccctacccccaaatttccccaccagctcccaaccctgtttggagctact 3060
Db CCAAACTTTCCCTACCCCAACTTTCCCAACCAGCTCCACAACTGTTTGGAGCTACT 3060
QY 3061 gcaggaccagaacacaaagtgcggtttcccaagcctttgtccatccagcccaaggt 3120
Db GCAAGACCAAGACCAAGTGCggtttCCCAAGCCTTTGTCCATCTCAGCCCCAGGT 3120
QY 3121 atatctgtctgtgggaattctcacagaaactcaggagcacccctgctgagctaaag 3180
Db ATATCTGTGCTTGGGAATCTCACAGAAACTCAGAGCACCCCTGCTGAGCTAAG 3180
QY 3181 gaggtctatctcaggggggttaagtgcggttgcaataatgctcgttattatt 3240
Db GAGGTCTTATCTCAGGGGGGTTTAAAGTGCggtTTGCAATAATGCTCTTATTATT 3240
QY 3241 tagcgggtgaattatttactgttaagtgaacaaatcacagataatgtttatgtgaca 3300
Db TACCGGGGTGAATATTTTACTGTAAAGTGAACAAATCAGAGTAAATGTTTATGGTGA 3300
QY 3301 aaattaaaggcttcttatatgttttaaaaaaaataaaaaataaaaaaa 3360
Db AAATTAAGGCTTCTTATATGTTTAAAAAATAAAAAAATAAAAAAATAAAAAA 3360
QY 3361 aaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaa 3410
Db AAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 3410

RESULT 3
AX200480
LOCUS AX200480 3410 bp DNA linear PAT 29-AUG-2001
DEFINITION Sequence 110 from Patent WO0151633.
ACCESSION AX200480
VERSION AX200480.1 GI:15390293
KEYWORDS human.
SOURCE Homo sapiens
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 3410)
AUTHORS Xu,J., Dillon,D.C., Mitcham,J.L., Harlocker,S.L., Jiang,Y.,
Reed,S.G., Kalos,M.D., Fanger,G.R., Day,C.H., Retter,M.W.,
Stolk,J.A., Skeiky,Y.A., Wang,A. and Mesgher,M.J.
TITILE Compositions and methods for the therapy and diagnosis of prostate

JOURNAL cancer
Patent: WO 0151633-A 110 19-JUL-2001;
CORIXA CORPORATION (US)
FEATURES Location/Qualifiers
source i..3410
/organism="Homo sapiens"
/db_xref="taxon:9606"
BASE COUNT 667 a 1014 c 945 g 783 t 1 others
ORIGIN
Query Match 100.0%; Score 3409.6; DB 6; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 gggaaacacgctgcaacgctggctccgggtgacacccgagcctcgcgcaggaatctga 60
Db 1 GGAACACGCTGCACGCGCTGGCTCCGGGTGACAGCCGCGCCTCGCCAGGATCTGA 60
QY 61 gTgatgagacgtgtcccaactgaggtgccccacagcagcaggtgtgtgagcatgggctgag 120
Db 61 GTGATGAGACGTGTCCCACTGAGGTGCCACAGCAGCAGGTGTGTGACATGGGCTGAG 120
QY 121 aagctggacccggcaccacaaagggtctggcagaataaggcgtgctgcttaggcagtt 180
Db 121 AAGCTGGACCGGCACCAAGAGGCTGSCAGAAATGGCGCTGGCTGATTCTTAGGCAGTT 180
QY 181 ggcgcagcaaggagagagggccgcagcttctggagcagagcagcagaacagctctg 240
Db 181 GCGCGCAGCAAGAGGAGAGAGCGCGCAGCTTCTGGAGCAGAGCCGAGCAAGCAGTCTG 240
QY 241 gagtccctgaacgccccctgagccctaccgcttggccactatggtccagagctgtg 300
Db 241 GAGTGCTTGAACGGCCCCCTGAGCCCTACCCGCTGGCCCACTATGCTCAGAGGCTGTG 300
QY 301 ggtgagcgcctgctgcgccacccgaaagccacagctcttgggtggtcaacctgctaaacct 360
Db 301 GGTGAGCCGCTGCTGCGSCACCGGAAAGCCAGCTCTTGGTGGTCAACCTGCTAACTT 360
QY 361 tggcctgaggtgtgttggccgagggacacccctatgtgcgcctctctgctggaagt 420
Db 361 TGGCCTGAGGTTGTGTTTGGCCGAGGCATACCTATGTGCCGCTCTCTCTCTGGAAGT 420
QY 421 ggggtgagggagagttcatcacatgctgctggcattgtccagctgctgggctgct 480
Db 421 GGGGTGAGGAGAGAGTTTCATGACCATGCTGCTGGGCATGCTGCACGTGCTGGGCTGTG 480
QY 481 ctgtgtcccgctctcttaggtcagccagtgaccactggcggtgagcgtctatggcgccgcg 540
Db 481 CTGTGTCCCGCTCTCTAGGCTCAGCCAGTGACCATGGCGTGGACGCTATGGCGCGCGG 540
QY 541 gcccttcactgtgggcaactgtccttgggcaatcctgtgagcctcttcttcataccccaggc 600
Db 541 GCCCTTCATCTGGGCACCTGCTCTGGGCATCCTGTGTGAGCCTCTTCTCATCCCAAGGC 600
QY 601 cggctggttagcaggtgctgtgccccgatccccagggccctggagctgagcactgctcat 660
Db 601 CGGCTGGCTAGCAGGGCTGTGTGCCCCGATCCAGGCCCTCTGGAGCTGGCACTGCTCAT 660
QY 661 cctgggctggtgggtgctggacttctgtggcaggtgtgtgttctcactccactggagccct 720
Db 661 CCGGGCTGGGGCTGCTGGACTTCTGTGGCAGGTGTGCTTCACTCCACTGGAGGCCCT 720
QY 721 gctctctgaactcttccccgggaccggacacactgtgcagagcctactctgtctatgacct 780
Db 721 GCTCTGACCTCTTCCGGGACCCGACACTGTGCCAGGCCCTACTCTGTCTATGCTCT 780
QY 781 catgatcagcttgggggtgctgctgggtgtacctctgctgctgctgctgagcagcacag 840
Db 781 CATGATCAGCTTGGGGGCTGCTGGGCTACTCTCTGCTGCCATTGACTGGGACACAG 840
QY 841 tgccttggccccctacctgggcaaccaggaggtgctcttggcctgctcactccact 900
Db 841 TGCCTTGGCCCCCTACCTGGGCAACCAGGAGTgctcttggcctgctcactccactcc 900

Db 841 TGCCCTGGCCCCCTACCTGGGACCCAGAGGAGTGCCTCTTTGGCTGCTCACCCCTCAT 900
Qy 901 cttctcaactcgttagcagccacactcgtggtggtgagagagcagcgtgggccccac 960
Db 901 CTTCTCTCACCTGGGTAGCAGCCACACTGCTGTTGGTGGTAGAGAGGACGCGTGGGCCCCAC 960
Qy 961 cgaagcagcagaaggctgtcgccccctcttctgtcgccccactgctgtccatgcccggc 1020
Db 961 CGAGCCAGCAGAGGGCTGTCGGCCCCCTCCTTGTGCGCCCCACTGCTGTCCATGCGGGC 1020
Qy 1021 ccgcttggtttccggaacctggcgccctgcttccccggctgcacacagctgtgctgcg 1080
Db 1021 CCGCTTGGCTTTCCGGAACCTGGCGGCCCTGCTTCCCGGCTGCACAGCTGTGCTGCCG 1080
Qy 1081 catgccccgacactgcgcggtcttcgtggtgactgactgactgactgactgactgact 1140
Db 1081 CATGCCCGGACCCCTGGCGCGGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1140
Qy 1141 gaccttcacgctgttttacacggaatttcgtggcgaggggctgtacacagggcgtgccag 1200
Db 1141 GACCTTCACTGCTTTTACACGGATTTCTGTGGCGAGGGCTGTACACAGGGCTGCCAG 1200
Qy 1201 agctgagccgggacccagagcccgagagacactatgatgaaggcgttcggatggcagcct 1260
Db 1201 AGCTGAGCCGGGACCCAGAGCCCGGAGACACTATGATGAAGGGCTTCGGATGGGAGCCCT 1260
Qy 1261 ggggctgtcctgcagtgccactcctcctgggtctctctctgtgctgacacggcgtgg 1320
Db 1261 GGGGCTGTTCTGCAGTGGCCATCTCCCTGGTCTTCTCTGCTGCTGATGACCGGCTGGT 1320
Qy 1321 gcagcgattcggcactgcagctcctatttgccagtggtggcagcttccctgtgctgc 1380
Db 1321 GCAGCGATTGGGCACTCGAGCAGTCTATTATGGCCAGTGTGSCAGCTTTCCTGTGGCTGC 1380
Qy 1381 cgtgacacatgctgtcccacagtggtgcgtggtgacagcttcagccctcacccg 1440
Db 1381 CGGTGCCACATGCTGTCCACAGTGTGGCGTGTGCTGTGACAGCTTCAGCGCGCCCTCACCG 1440
Qy 1441 gttcaccttctcagcctgcagatcctgcctacacactggcctccctcctacacacggga 1500
Db 1441 GTTCACTTCTACGCCCTGCAGATCTCTGCCCTACACACTGGGCCCTCCCTTACCAACCGGGA 1500
Qy 1501 gaagcaggtgtcctgcccacaaaccagagggagacactggaggtgctagcagtgaggacag 1560
Db 1501 GAAGCAGGTGTCTGTGCCAAATACCAGAGGGGACACTGGAGGTGCTAGCAGTGAAGACAG 1560
Qy 1561 cctgatgaccagcttctcctgcagggcctaaagcctggagctcccttccctaatggacacgt 1620
Db 1561 CCTGATGACCACTCTCTGCGCAGGCCCTAAGCCTGGAGCTCCCTTCCCTTAATGGACACGT 1620
Qy 1621 ggggtgtgagggcagtggtgcttccacactccaccccgctctgcggggcctctgctcgt 1680
Db 1621 GGGTGTGAGGGCAGTGGCCCTGCTCCCACCTCCACCCCGCTCTGCGGGGGCTCTGGCCTG 1680
Qy 1681 tgatgtccctacgtgtggtggtggtgagccacagagccaggggtgggttccggggcgg 1740
Db 1681 TGATGTCTCCGTACGTGTGTTGGTGGGTGAGCCCCACCCAGAGGCCAGGGTGGTTCGCGGCG 1740
Qy 1741 ggggcatctgctgacactcgccatcctggatagtgcttccctgctgtgtcccgagggtcccc 1800
Db 1741 GGGCATCTGCTGGACCTTCGCCATCTCTGGATAGTGCCTTCCCTGCTGCCAGGTGGCCCC 1800
Qy 1801 atccctgtttatgggtccattgtccagctcagcagctcgtcactgctcctatatgggtgc 1860
Db 1801 ATCCCTGTTTATGGGCTCCATTGTGCCAGCTCAGCCAGTCTGTGCTGCTATATGTTGGTGT 1860
Qy 1861 tgcgcagggcctgggtcgtggtgcgcatcttactttgtctacacaggtagttattgacaagag 1920
Db 1861 TGCCGACGGCTGGGTCTGGTGGCATTTACTTGTCTACAGAGTGTGTTTGTGACAGAG 1920
Qy 1921 cgaacttggccaaatactcagcgttagaaaaacttccagcacattgggggtggagggcctgcct 1980
Db 1921 CGACTTGGCCAAATACTCAGCGGTAGAAAACCTCCAGACATTTCCAGACATTTGGGGCTGGCCT 1980

Qy 1981 cactgggtcccgagctcccgctcctctttagccccatggggctgcccgggtggtggcgccaagt 2040
Db 1981 CACTGGGTCCCAGCTCCCAGCTCCTGTTAGCCCATGGGGCTGCCGGGTGCGCCGCACT 2040
Qy 2041 ttctgtgtgtgcacaaagtaagtgtgctctctgtgccacccctgtgctgaggtgcgta 2100
Db 2041 TTTCTGTTGTGTCACAAAGTAATGTGCTCTGTGCCACCCCTGTGCTGTGTGAGTGGCTA 2100
Qy 2101 gctgcacagctggggctggcgctcctctcctcctcctcctcctcctcctcctcctcctcct 2160
Db 2101 GCTGCACACTGGGGCTGGGGCTGCCCTCTCTCTCTCTCCAGTCTCTAGGCTGCCCTG 2160
Qy 2161 actggagggccttccaaagggttttcagctgtgacttatcacagggagggccagaaaggctcc 2220
Db 2161 ACTGGAGGCTTCCAAAGGGGTTTCAGTCTGGACTTTATACAGGAGGCCAGAAAGGCTCC 2220
Qy 2221 atgcactggaatgcgggactctgcaggtggattaccaggtccaggggttaacagctagc 2280
Db 2221 ATGCACCTGGAATGCGGGGACTCTGCAGGTGGATTACCCAGGCTCAGGGTTAACAGCTAGC 2280
Qy 2281 ctctagttgagacacacactagaaagggtttttgggagctgaataaactcactcactcctg 2340
Db 2281 CTCCTAGTTGAGACACACACTAGAGAAAGGTTTTTTGGAGCTGAATAAATCACTACCTACCTG 2340
Qy 2341 gttccacatctcctaaagcccttaacctgcagcttcgtttlaattagctctctgcatggag 2400
Db 2341 GTTTCCTCATCTCTAAAGCCCTTAACTTGCAGCTTCGTTTTAATGTAGCTCTTGTGATGGGAG 2400
Qy 2401 tttctaggtgaaacactcctcctcctcctggttttgggagctgaataaactcactcactcctg 2460
Db 2401 TTTCTAGGATGAACACTCTCTCCATGGGATTTTGAACATATAGCTTATTTGTAGGGGAAGA 2460
Qy 2461 gtccaggggggacacacacacacacacacacacacacacacacacacacacacacacacac 2520
Db 2461 GTCTTGAGGGGCAACACACAAAGAACCCAGGTCCCTCAGCCCCACAGCACTGCTTTTGTCT 2520
Qy 2521 gatccacccctcttaccttttacctgaggtgtggcctgttggctctctctgttggcactca 2580
Db 2521 GATCCACCCCTCTTACCTTTTATCAGGATGTGGCTGTGTCTCTCTCTCTCTCTCTCTCT 2580
Qy 2581 cagagacacagggcatttaaatatttaacttatttatttatttatttatttatttatttatttatt 2640
Db 2581 CAGAGACACAGGCATTTAAATATTTAACATTATTATTAACAAAGTAGAAGGGAATCCAT 2640
Qy 2641 tgtagctttctgtgtgtgtcctaattttgggttaggtgtggggatccccacacacacacacac 2700
Db 2641 TGCTAGCTTTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2700
Qy 2701 ggtccctgagatagctggtcattgggctgatcattggcagaaatctctctctctctctctctct 2760
Db 2701 GGTCCCTGAGATAGCTGGTTCATTGGGCTGATCATTTGCCAATCTTCTTCTCTCTCTCTCT 2760
Qy 2761 ctggcccccaaaatgctaaaccaggacacctggaaattctactcatcccaaatgataat 2820
Db 2761 CTGGCCCCCAAAATGCTTAACCCAGACCTTGAAATTTCTACTTCATCCCAATGATTAAT 2820
Qy 2821 tccaaatgctgttaccacaaaggttaggtgttgaaggaggttagaggtgggggcttcagggt 2880
Db 2821 TCCAAATGCTGTGTACCCCAAGGTTAGGGTGTGAAGGAAGGTAGAGGTGGGGCTTCAGGT 2880
Qy 2881 ctcaagggcttccctaaaccacccctctctctctctctctctctctctctctctctctctctcc 2940
Db 2881 CTCAAAGGCTTCCCTAAACCACCCCTCTCTCTCTTTGGCCAGCTGTGTTCCTCTCTCTCTCT 2940
Qy 2941 ctccctctactctctctagactggctgatgaaggcactgcccacaaatttcccttacc 3000
Db 2941 CTCCCCCTCTACTCTCTCTAGACCTGGCTGATGAAGGCACCTGCCCAAAATTTCCCTTACC 3000
Qy 3001 cccaacttctccctaccaccccaactttcccccacagcttccacacacccctgttttggagctact 3060
Db 3001 CCCAACTTCCCTTACCCTTACCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCT 3060

|||||
Db 1321 GCAGGATTCGGACATCGACAGCTCTATTGGCCAGTGTGGCAGCTTCCCTGTGCTGC 1380
Qy 1381 cgggtgcacatgctgtccacagtggtggtggtgacaggttcagcgccctccacgg 1440
|||||
Db 1381 CGGTGCCATGCTGTCCACAGTGTGGCGTGGTGACAGCTTCACCGCCCTCACCG 1440
Qy 1441 gttcaccttcagcctgcagatcctgcctacacactggtccctctaccacggga 1500
|||||
Db 1441 GTTCACCTTCTAGCCCTGCAGATCTGCCCTACACACTGGCCCTCCTCTACACCGGA 1500
Qy 1501 gaagcaggtgttctgtcccaataaccaggggacactggaggtgctagcagtgagacag 1560
|||||
Db 1501 GAAGCAGGTGTCTCTGCCCAATACCGAGGGACACTGGAGGTGCTAGCAGTGAGGACAG 1560
Qy 1561 cctgatgacacagcttctgcagcgccctaagcctgagctccctccctaagtgcacgt 1620
Db 1561 CCTGATGACAGCTTCTGTCAGGCCCTAAGCCTGAGCTGCCCTCCCTTAATGGACAGT 1620
Qy 1621 ggggtgtgaggtgagtgctgtctccacactccacccgcgtctggtggcctctgcctg 1680
Db 1621 GGGTGTGGAGGAGTGGCCTGTCCACCTCCACCGCGCTCTGCGGGGCTCTGCCTG 1680
Qy 1681 tgatgtctcgtacgtgtggtggtggtgagccacagccaggggtgtccgggccc 1740
Db 1681 TGATGTCTCCGTAGCTGTGTGGTGGTGAGCCACCGAGGCCAGGTGTTCCGGGCCG 1740
Qy 1741 gggcatctgctgacctgcacatcctggatagtgcttctctgcttccaggtggcccc 1800
Db 1741 GGGCATCTGCTGACCTCGCCATCTTGATAGTGCTTCTGCTGCCAGGTGGCCCC 1800
Qy 1801 atcctgtttatgggtccattgttccagctcagccagctgtcactgtatgtgtc 1860
Db 1801 ATCCCTGTTTATGGGCTCCATGTGTCCAGCTCAGCAGCTGTCTACTGCCCTATATGTTGTC 1860
Qy 1861 tgcgcaggtggtgtgctgcatttactttgttacacagtagtatttacacagag 1920
Db 1861 TGCGCAGCGCTGGGTGTGGTGGCAATTTACTTTGCTTACACAGTAGTATTTGACACAG 1920
Qy 1921 cgaactgtgccaatactcagcgttagaatactccagcacattgggtggaggccctgcct 1980
Db 1921 CGACTTGGCCAAATACTCAGCGTAGAAAATCTCCAGCACATTTGGGTGGAGGGCTGCCT 1980
Qy 1981 cactgggtccagctcccgctcctgttagcccatggggctgcgggtgcggccaggt 2040
Db 1981 CACTGGGTCCACAGTCCCGCTCCTGTGTAGCCCATGGGGCTGCGGGCTGGCCGCCAGT 2040
Qy 2041 tctgtgtgtcgaagttaagtgtgctctctgtgtgccacacctgtgtgctgaggtgcgta 2100
Db 2041 TTCGTGTGTCGCCAAGTAATGTGGCTCTGTGCTGCCACCTGTGTGAGGTGCGTA 2100
Qy 2101 gctgcacagctgggggtgggggtccctctcctctctctcccaagctctcaggtgcctg 2160
Db 2101 GCTGCACAGCTGGGGGTGGGGGTCCCTCTCTCTCTCCCAAGTCTTAGGGGTGGCTG 2160
Qy 2161 actgagaccttcaaggggtttcagctctgacctatacagggagggccagaaagggtccc 2220
Db 2161 ACTGAGGCCCTTCCAGGGGTTTACGTCTGACTTATACAGGGAGGCCAGAGGGCTCC 2220
Qy 2221 atgcaactggaatgcgggaacctgcaggtggaattaccocaggtcaggggttaacagctagc 2280
Db 2221 ATGCACCTGGAATGCGGGGACTCTCAGGTGGATTAACCGAGCTCAGGGTTAACACGTAGC 2280
Qy 2281 ctctagttgacacacctagaaagggttttggagctgtaataaactcagtcacactg 2340
Db 2281 CTCTAGTTGAGACACACTAGAAAGGGTTTTGGAGCTGGAATAAATCAGTCAGCTG 2340
Qy 2341 gtttccctctcctaagcccttaacctgcagcttctgtttaaagttagctcttgcatggag 2400
Db 2341 GTTTCCTCCATCTAAGCCCTTAACCTGCAGCTTCGTTAATGTAGCTCTTGTCATGGGAG 2400
Qy 2401 ttcttagatgaacacctctccatgggatttgacatatgaactattttagggggaaga 2460
|||||

Db 2401 TTCTTAGTAGAAACACACTCCCTCATGGGATTTGAACATATGACTTATTTGTAGGGGAAGA 2460
Qy 2461 gtcttgaggggcaacacacaagaaccaggtccctctcagccacagcactgtcttttgc 2520
|||||
Db 2461 GTCTTGAGGGGCAACACACAAGAACAGGTCCCTCAGCCACAGCACTGTCTTTTGTCT 2520
Qy 2521 gatccacccccctcttaocttttaacagatgtgacctgtgtgcttctctgttgcacata 2580
Db 2521 GATCCACCCCTCTTACCTTTATCAGGATGTGGCTGTGTGCTCTCTGTGTGGCATCA 2580
Qy 2581 cagacacacagcatttaataatttaacttattttaacaaaagtgaagggaatccat 2640
|||||
Db 2581 CAGAGACACAGGCATTTAAATATTAACTATTATTAAACAAGTAGAAGGSAATCCAT 2640
Qy 2641 tgcctagctttctgtgtgtgtcttaataatttgggttaggtggtggggtcccaacaata 2700
Db 2641 TGCTAGCTTTTCTGTGTGTGCTAAATATTGGGTAGGTGGGGATCCCAACAATCA 2700
Qy 2701 ggtccctgagatagctgtcattggctgacattgccagaatcttctctcctggggt 2760
Db 2701 GGTCCCTGAGATAGCTGTCTATTGGCTGATTTGCCAGTAATCTTCTCTCTGGGT 2760
Qy 2761 ctggcccccccaaatgcttaacccagggaccttggaaattctactcatcccaaatgataat 2820
Db 2761 CTGGCCCCCAAAATGCCCTAACCCAGGACCTTGGAAATTTCTACTCATCCAAATGATAAT 2820
Qy 2821 tccaaatgctgttaccccaaggttaggtgttgaaggaggtagaggtggtggtcctcag 2880
Db 2821 TCCAAATGCTGTATACCAAGGTAGGGTGTGAAGGAAGGTAGAGGTGGGGCTTCAGGT 2880
Qy 2881 ctcaaggggttccctaaacacacccctctcttctgtggccagcctgggttcccccaactca 2940
Db 2881 CTCACGGGTTCCTTAACCAACCCCTCTCTCTGTGGCCAGCTGTGTCCCCACTTCCA 2940
Qy 2941 ctccccctactctctctctaggtggtggtgatgaaggacactgcccaaaatttccccctacc 3000
Db 2941 CTCCCCCTACTCTCTCTAGGACTGGGCTGATGAAGGCATGCCCAAAATTTCCCTACTC 3000
Qy 3001 cccaacttccccctaccaccaacttccccacagctccacacacctgtttggagctact 3060
Db 3001 CCCAACTTTCCCTACTCCCCCACTTTCCCCACAGCTCCCAACCCCTGTTTGGAGCTACT 3060
Qy 3061 gcaggaccagaagcaaaagtcggtttcccaagccttgtccatctcagcccccaagt 3120
Db 3061 GCAGGACCAGAACACAAAGTGGGTTTCCAAAGCTTTGTCCATCTCAGCCCCCAGAGT 3120
Qy 3121 atatctgtcttggggaattctcacagaaaactcagagcaccctcctgctgagctaaag 3180
Db 3121 ATATCTGTGCTTGGGGAATCTCACAGAAACTCAGAGACGCCCTGCTGAGCTAAG 3180
Qy 3181 gaggtcttatctctcaggggggttttaagtgcgttttgaataatgctctctattatt 3240
Db 3181 GAGGTCTTATCTCAGGGGGGGTTTAAAGTGGCTTTGCAATTAATGCTCTTATTATT 3240
Qy 3241 tagcgggtgtaataatttatactgtaagtgcagcaatcaagataatgttttgggagca 3300
Db 3241 TAGCGGGGTGAATATTATTTTACTGTAGTGAGCAATCAGAGTATAATGTTTATGTGACA 3300
Qy 3301 aaattaaaggttcttataatgttttaaaaaaataaaaaaataaaaaaataaaaaa 3360
Db 3301 AAATTAAAGGCTTCTTATATGTTTAAAAAATAAAAAAATAAAAAAATAAAAAA 3360
Qy 3361 aaaaaaraaaaaaataaaaaaataaaaaaataaaaaaataaaaaaataaaaaa 3410
Db 3361 AAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 3410

RESULT 5

AY033593

LOCUS

DEFINITION

ACCESSION

VERSION

3410 bp

mRNA

linear

PRI 23-MAY-2001

Homo sapiens prostate mRNA, complete cds.

AY033593

AY033593

GI:14192791

```

KEYWORDS
SOURCE      human.
ORGANISM    Homo sapiens
REFERENCE   1 (bases 1 to 3410)
AUTHORS     Filho,A.M., Nolasco,M., Stolk,J.A., Zasloff,E.J., Zhang,X., Houghton,R.L.,
            Xu,J., Kalos,M., Badaro,R. and Reed,S.G.
TITLE       Identification and characterization of prostate, a novel
            prostate-specific protein
JOURNAL     Cancer Res. 61 (4), 1563-1568 (2001)
MEDLINE     21139094
PUBMED      11245466
REFERENCE   2 (bases 1 to 3410)
AUTHORS     Xu,J., Kalos,M., Stolk,J.A., Zasloff,E.J., Zhang,X., Houghton,R.L.,
            Filho,A.M., Nolasco,M., Badaro,R. and Reed,S.G.
TITLE       Direct Submission
JOURNAL     Submitted (27-APR-2001) Antigen Discovery, Corixa Corporation, 1124
            Columbia Street, Seattle, WA 98104, USA
FEATURES
Source
1..3410
   /organism="Homo sapiens"
   /db_xref="taxon:9606"
   /chromosome="1"
   /tissue_type="prostate"
   /codon_start=1
   /product="prostein"
   /protein_id="AAK54386.1"
   /db_xref="GI:14192792"
   /translation="MVQRLWVSRLLRHRKAQLLIVNLLTFGLVECLAGIYVPLLL
   EVGVEKFTMVLGIPVLGVLCVPLGSDHWGRYGRRRPFIAWLSLILSLFL
   IPRAWLGLLCPRLPEALLILGVLLDFCGQVCFPLEALSDILFDPDHCROA
   YSVAFMISGLCLGYLLPAIDWTSALAPYLGTOECLFGLTLIFITCVAAATLLVA
   EEAALCPTEPAGLSAPLSPHCCPCRLARLPRNLGALLPRLLHOLCCMRPTLRLLFV
   AELCSWMAWTLTLYTDFVGRGLYQGVPRAPTEARRHVDGVRMSLGLFLQCAL
   SLVFLVMDRLVQREGTRAVYLASVAAPFVAGATCLSHSVAVTVTASALGFFFSAL
   QLPLYTLASLIREKQFLPKYRTGGASDSLMTSLFPGPKFAGFPNGHVGAGG
   SGLPPPALCGASACDSVRVYVGGTEPEARVYVPGRICLDLAILDSAPLLSQVAPSL
   FMGSIVOLQSOTAYMVSAAGLVAIYFATQVDFKDLAKYSA"
BASE COUNT 667 a 1014 c 945 g 783 t 1 others
ORIGIN
Query Match      100.0%; Score 3409.6; DB 9; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1  ggaaccagcctcacgcgctgctccgggtgacagccgcgcctcgccaggatctga 60
Db 1  GGAACACGCGCTGCACGCGTGCCTCGGGTGACACCGCGCGCTCGCCAGGATCTGA 60
QY 61  gtgatgagacgtgtccccactgaggtgccccacagcagcaggtgtgtgagcattgg 120
Db 61  GTGATGAGACGTGTCCCACTAGGTGCCCCACAGCAGCAGGTGTGTGACATGGGCTGAG 120
QY 121  aagctgacgcgcacaaagggtggcagaaatggcgccctggctattccctaggcagtt 180
Db 121  AAGCTGACCGCGGACCAAGGGGTGGCAGAAATGGCGCGCTGGCTGATTCTTAGGCAGTT 180
QY 181  ggcgagcagcagagagagcgcgcagcttctggagcagcgcgcgcgcgcgcgcgcgc 240
Db 181  GCGGACAGCAGGAGGAGCGCGCAGCTTCTGGAGCAGACGCGCAGCAGCAGCTTCTG 240
QY 241  gagtgcctgaacggccccctgagccctacccgcctggccactatggtccagaggtgtg 300
Db 241  GAGTGCCTGAACGCCGCCCTGAGCCCTTACCGCGCTGGCCCACTATGCTCCAGAGGCTG 300
QY 301  qgtgagccgctctgcgcgcacgcgaaagccagctcttgcgtggtcaacctgtaacctt 360
Db 301  GGTGAGCGCGCTCTGTCGGGACCGGAAAGCCCGAGCTCTTGTGCTGCTCAACTGCTA 360
QY 361  tggcctgagaggtgtgttggcgagcagcatcacctatgtgccgcctctctgctggaagt 420

```

```

Db 361  TGGCCTGGAGGTGTGTTTGGCCGAGGCATCACCTATATGTCGCCCTCTGCTGGAAGT 420
QY 421  ggggtagagagaagttcatgaccatggtcgtggcattggtccagtgctgggcctggt 480
Db 421  GGGGTAGAGAGAAGTTTCATGACCATGTTGTTGGCATTTGTTCCATGCTGGGCTGCT 480
QY 481  ctgtgtcccgctcttagcctcagccagtgaccactggcgtggaagcctatggccgcgcg 540
Db 481  CTGTGTCCCGCTCTTAGGCTCAGCCAGTGACCACTGGCGTGGAGCGCTATGGCCGCGG 540
QY 541  gcccttcactgtggcactgtcttgggcatactcgtcgtgagcctcttcttcataccaa 600
Db 541  GCCCTTCATCTGGGCACGTCTCTTGGCATCTGCTGAGCCTCTTCTTCATCCCAAGGC 600
QY 601  cggctggttagcagggctgctgtgcccgatcccaagccctcagcagcgtgacactgct 660
Db 601  CGGCTGGGTAGCAGGGCTGCTGTGCCCGGATCCCAAGGCCCTTGGAGCTGGCACTGCT 660
QY 661  cctggcgctggggctgctggacttctgtggcagagtgtgcttcaactcactggagccct 720
Db 661  CCTGGCGCTGGGGCTGCTGGACTTCTGTGGCCAGGTGTCTCACTCCACTGGAGGCCCT 720
QY 721  gctcttgacactcttccgggaccgggaacctgtgcagggcctactctgtctatgctt 780
Db 721  GCTCTTGACACTCTTCCGGGACCCGGACCACTGTGCGCAGGCTACTCTGTCTATGCTT 780
QY 781  catgatacgtcttggggctgctggctgctacccctcgtcctgccaattgactgggacac 840
Db 781  CATGATCAGTCTTGGGGCTGCTGGGCTACTCTCTGCTGCCATTGACTGGACACCA 840
QY 841  tgcctggccccctactctggcaccacccaggagagtgctcttctggcctgctcaccc 900
Db 841  TGCCCTGGCCCCCTTACCTTGGGCACCCAGGAGAGTGCCTCTTGGCCTGCTCACCTCAT 900
QY 901  ctctcactcctgcgtagcagcacaactcgtggtgctgagagcgctggtggcccccac 960
Db 901  CTTCTCCTCAGTGCCTGAGCAGCACACTGCTGCTGAGGAGGACGCGCTGGGCCCCAC 960
QY 961  cggcgcagcagaaggctgctggccccctccttctgccccactcgtctcactgacgcgg 1020
Db 961  CGAGCCAGCAGAAGGGCTGTGCGGCCCTCTCTTGTGCGCCCACTGCTGCTGATGCGGGC 1020
QY 1021  csgcttgcttcgcgaacctggcgccctcctccccgcgtgcaccagctgctgctgcg 1080
Db 1021  CCGCTTGCTTCTCCGGAACCTTGGGCGCCCTGCTTCCCGGCTGCACAGCTGTGTCGCG 1080
QY 1081  catgccccgcacctgcccgcgctctctggtgctgagctgtgacgtgagtgagcactcat 1140
Db 1081  CATGCCCCGCACCCCTGCGCGCTCTTCTGCTGCTGAGCTGTGACGTGGATGGCACTCAT 1140
QY 1141  gaccttcacgtgttttacacgagattcgtggcgaggggctgtacacagggcgtgccac 1200
Db 1141  GACCTTCACGTGTGTTTACACGGATTTCGTGGCGAGGGGCTGTACACGGGCTGCCACG 1200
QY 1201  agctgagcgcggcaccgagcccgagacactatgatgaagcgcttcgagatgggcagcct 1260
Db 1201  AGCTGAGCGGGCACCGGAGCCCGGAGACACTATGATGAAGCGTTCGGATGGGACGCT 1260
QY 1261  gggggtgttctgcagtcgccccatctccctggtctctctctgtgctgagcagcgtggt 1320
Db 1261  GGGGTGTTCCTGCACTGCGCCATCTCCCTGCTGCTCTCTCTCTGCTGATGGACCGGCT 1320
QY 1321  gcagcattcgccactcgagcagctatttggccagtggtggcagcttctccctgtggtgc 1380
Db 1321  GCAGGATTGCGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGGCTTCCCTGTGGCTGC 1380
QY 1381  cgtgtccacatgctcgtgtcccaagtggtgctggtgacagcttcagcgcgcctcaccc 1440
Db 1381  CGTGTCCACATGCTCTGTCCACAGTGTGGCCGTGTGTGACAGCTTCAGCGCGCTCACCG 1440
QY 1441  gttacccttctcagccctgcagatcctccctacacactggcctcctctaccacccgga 1500

```

Db	1441	GTTCACCTTCTCAGCCCTCGAGATCGTGCCTTACACACTGGCCCTCCCTCTCTACACACCGGA	1501
Qy	1501	gaagcagggtgttctctgccaaataccagagggaactggagctggagtgctagcagtgaggacag	1561
Db	1501	GAAGCAGGTGTTCTCTGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACAG	1561
Qy	1561	cttgatgaccagcttctctccaggccctaagaacctggagcctgagctcccttcccttaatgacaagt	1620
Db	1561	CCTGATGACCAGCTTCTCTCCAGGCCCTAAGCCTCGAGCTCCCTTCCTTCCTAATGACACAGT	1620
Qy	1621	gggtgctggaggcagtggcctgctcccaactccacccgcgtctgcggggcctctgctctg	1680
Db	1621	GGGTGCTGAGGCGNGTGGCCTGCTCCCACCTCCACCCGGCTCTCGGGGGCCTCTGCCTG	1680
Qy	1681	tgatgtctcgtacgtgtgtgggtgggtgagcccaaccagagcccaagggtgtgttcggggcgg	1740
Db	1681	TGATGTCTCCGTACGTGTGTGGTGGGTGAGGCCACACGAGGCCAGGGTGTGTCCGGGCGG	1740
Qy	1741	ggacatctgctggaacctcgccatcctgagtagtccttctgctgtcccaagtgagcccc	1800
Db	1741	GGGCACTGCTCGGACCTCGCCATCTGGATAGTGCCCTCTCTGTGCCAGTGTGGGCTCGCCT	1800
Qy	1801	atccctgtttatgggtcccaattgtccagctcagccagctgtcctactgctctatatgtgtc	1860
Db	1801	ATCCTCTTTATGGCTCCATTGTCCAGCTCAGCCAGTCTGTCTACTGCTATATGTTGTC	1860
Qy	1861	tgcgcagcctgggtctggtgcgaatttaattgtctacacagtagtattgtgacaagag	1920
Db	1861	TGCGCGAGGCCTGGGTCTGGTGCCTATTACATTTTCTACACAGGTAGTATTGTGACAGAG	1920
Qy	1921	cgacttggccaaatactcagctcagctagaaaacttccagcacattgggtggagggcctgcct	1980
Db	1921	CGACTTGGCCCAATACTCAGCGTAGAAAACTTCCAGCACATTGGGTGGAGGCCCTGCCT	1980
Qy	1981	cactgggtcccagctcccgcctcctgtgttagcccaattggggctgcgggctggccgcagct	2040
Db	1981	CACTGGGTCCACGCTCCCGGCTCTGTTTAGCCCCCATGGGGTGTCGGCGCTCGGCCCGCAGT	2040
Qy	2041	tctgtgtgtgccaaagtaatgtggctctcctgtgccaccctgtcctgctgagtgagtgcta	2100
Db	2041	TTCTGTGTCTGCCAAAGTAATGTGGCTCTCTGCTGCCACCCTGTGCTCAGGTGGCTA	2100
Qy	2101	gctgcacagctgggggctggggcgtccctctcctctctcccagtcctctagggctgcgtg	2160
Db	2101	GCTGCACAGCTGGGGGCTGGGCGTCCCTCTCTCTCTCTCCCCAGTCTCTAGGGGTGCGTG	2160
Qy	2161	actgagggcctccagaggggtttcagctcgactctacaggtgagggccagaaagggctcc	2220
Db	2161	ACTGGAGGCCCTTCCAAGGGGTTTCAAGTCTGAGCTTATACAGGGAGGCCACGAAGGGCTCC	2220
Qy	2221	atgcactggaatcgggggactctgcaggtggattaccacggctcagggttaacagctagc	2280
Db	2221	ATGCACCTGGAAATCGGGGACTCTGCAGGTGGATTACCCAGGCTCAGGGTAAACAGCTAGC	2280
Qy	2281	ctctacttgaacacacactagagaagggtttttgggagctgaataaactcagtcacactg	2340
Db	2281	CTCTAGTTGAGACACACTTAGAAGAAGGGTTTTTGGAGCTGAATAAACTCAGTACACTG	2340
Qy	2341	gtttcccatctctaaagcccttaacctcagctctcgttttaatgtagctcttgatgggag	2400
Db	2341	GTTTCCCATCTCTAAGCCCTTAACCTGCAGCTTCGTTTAATGTAGCTCTTGCATGGGAG	2400
Qy	2401	ttcttaggatgaacaactcctccatgggatttgaacatatgacttatttgtaggggaaga	2460
Db	2401	TTTCTAGGATGAACAACCTCTCCATGGGATTTTGAACATATGACTTTATTGTAGGGGAAGA	2460
Qy	2461	gtcctgaggggcacaacagaacagggtcccctcagccacacagcactgtcttttgcct	2520
Db	2461	GTCCTGAGGGGCAACACACAGAACACAGGTCCCTTCGCCCCACACACTGCTTTTGTCT	2520
Qy	2521	gatccaccccccctcttacottttatcaggatgtggcctgtgtgttctctctgttggcatca	2580
Db	2521	GATCCACCCCTCTTACCTTTTATCAGATGTGGCTGTTGGTCTCTCTCTGTGCGCATCA	2580

[illegible]

RESULT

AX327336	AX327336	3320 bp	DNA	linear	PAT 07-JAN-2002
LOCUS	Sequence 1 from Patent WO0181577.				
DEFINITION	AX327336				
ACCESSION	AX327336				
VERSION	AX327336.1	GI:18097882			
KEYWORDS	human.				
SOURCE	Homo sapiens				
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
REFERENCE	1 (sites)				
AUTHORS	Lau, T., Lin, R.J., Parkes, D., Parry, G., Schneider, D.W., Steinbrecher, R., van Heut, P.T. and Wu, J.				
TITLE	Dna encoding the proct 03 polypeptide				

Query Match	96.6%	Score 3292.4	DB 6	Length 3320
Best Local Similarity	99.9%	Pred. No. 0		
Matches 3316	Conservative	0	Mismatches	1
			Indels	3
			Gaps	2
Qy	3	gaacagcctgcagcgtgctggctccgggtgacagccgcgcgcctcgcccaagatctcaggt	62	
Db	1	GAACAGCCTGCACGCGCTGGCTCCGGGTGACAGCCGCGCCCTGGCCAGGATCTCAGT	60	
Qy	63	gatgagacgtgtcccccactgaggtgccccacagcagcaggtgttgagcatggcgtgagaa	122	
Db	61	GATGAGAGGTGCCCACTGAGGTGCCCCACAGACAGAGGTGTGACATGGGCTGAGAA	120	
Qy	123	gctggacgcgcacaaaggctggtgcagaaatggcgccctggctgattcctcaggcagttgg	182	
Db	121	GCTGGACGGCACAAAGGGCTGGCAGAAATGGCGCCTGGCTGATTCTTAGGCAGTTGG	180	
Qy	183	cggcagcaaggagagagccgcagctcttggaacagacgcagcagcagcagtcctcggga	242	
Db	181	CGGACGACAGGAGGAGAGCGCGCAGCTTCTTGGAGCAGAGCCGAGACGAACGACTTCTGGA	240	
Qy	243	gtgcctgaacggccccctgagccctacccgcctggcccactatggtccacagagctgtggg	302	
Db	241	GTGCCTGAACGGCCCCCTGAGCCCTACCCGCTGGCCCACTATGGTCAGAGGGCTGTGGG	300	
Qy	303	tgaacgcctgctgcggcaaccgaaagccagctcttctgtgggtcaacctgctaaccttg	362	
Db	301	TGAGCGCCTGCTGGGSCACCGGAAGCCAGCTCTTGTGTGGTCAACCTGCTAACCTTG	360	
Qy	363	gcctggaggtgtgttggccgcaggcatcaacctatgtgccgcctctgctgctggaagtgg	422	
Db	361	GCCTGSGAGGTGTGTTGGCGCGAGGCATCACTATGTGCGGCCCTCTGCTGCTGGAAGTG	420	
Qy	423	gggtagaggaaggttcaatgacacatgctgtcgtggccattggtccagtgctgggcctggctct	482	
Db	421	GGGTAGAGGAGAAGTTCATGACCATGGTGTCTGGGCATTTGTCTCAGTGTCTGGGCTGTG	480	
Qy	483	gtgtccgcctccttaggtcagcagtgacccactggcgtgagcgtatggccgcgcgcgc	542	
Db	481	GTGTCCGCTCCTTAGGCTCAGCAGTACCACTTGGCGTGGACGCTATGGCCCGCCGCGGC	540	
Qy	543	ccttcactcgggcactgtccttggggcatcctgctgagcctcttctcattccccaaggccg	602	
Db	541	CCTTCATCTGGGCACGTCTCTGGGCATCCTGCTGAGCCCTCTTCTCATCCCCAAGGCCG	600	
Qy	603	gtcgttagcagggctgctgtgcccggatcccaaggccccctggagctgggaactgcatcc	662	
Db	601	GCTGGGTAGCAGGGCTGTGTGCCGGATGCCAGGCCCTTGGAGCTGGCACTGCTCATCC	660	

the DraIII sites can be used to isolate the cDNA insert. Libraries were constructed by oligo-capping method (Sugano et al., , Institute of Medical Science, University of Tokyo).

Custom primer used for sequencing
 3' end primer [CTTCTGCTATAAGCTGGG];
 3' end primer [CGACCTGCAGCTCGACACA]).

FEATURES

source

1..3514
 /organism="Macaca fascicularis"
 /db_xref="taxon:9541"
 /clone="Qtra-11310"
 /sex="male"
 /tissue_type="temporal lobe right"
 /clone_lib="Macaque brain cDNA library Qtra"
 /dev_stage="adult"
 454..2115

CDS

/codon_start=1
 /product="hypothetical protein"
 /protein_id="BAB46871.1"
 /db_xref="GI:13874497"
 /translation="MVORLWVSRLLRHBKAOLILINLLTFGLEVCLAAAGIYVPPLLL
 EVGVEKEFWTVLIGPVLGVSVPLLSADHNRGRYRRRPFIIWALSGLISLFL
 IPRAGWLAGLCPDPRPLELALLILGVGLDFCGVQCFPLEALLSLDFRDPDHCROA
 YSVAFMISLGGCLGYLLPAIDWDTISALPYIGTQBECLFGLLILFTVAAATLLVA
 BEALGPAEAGLSAPLSHCCPCWRLAFRLNALLPRHLHOLCCMRPTLRFLV
 RELCSWMAIMFTLFTYDFVGEGLVQVRAELGTEARRHYDEGRVMSGLFLQCAI
 SLVFSVMDRLVORRQVTRAVVLASVAAFPVAGATCLSHSVAVVTASALRGFFFSAL
 QILPYTLASLHREORVFLPKRYGDAGTSSDSLMTSLFLGPKPGAPFNGHVGAG
 SGLPLLPALCGASCDVSRVWVGEPTAEARVVRGICFLDLAILDSAPFLLSQVAPSL
 FMGSTVQLSQSVTAYMVAAGLGLVAFYATQVVFDKSDLAKYSV"

BASE COUNT 647 a 1039 c 1003 g 825 t

ORIGIN

Query Match 85.0%; Score 2900.2; DB 9; Length 3514;

Best Local Similarity 94.8%; Pred. No. 0;

Matches 3155; Conservative 0; Mismatches 118; Indels 54; Gaps 13;

QY 51 caggatctgagtgatgaacgctgtcccaactgagtgccacagcagcagcagtggtgac 110
 DB 221 CAGGATCTCAGTGATGATGATGTGCCCCACTGAGGTGCCCCACACAGCAGGTGTGAGC 280
 QY 111 atgggctgagaagctggaccgacacaaaggctggcagaaatggcgctgctgattc 170
 DB 281 ATGGGCTGAGAAGCTGGACCGCACCAAGGCTGSGCGAATGGCGCTGGCTGATTC 340
 QY 171 ctaggcagttggcgagcaaggagagagccgagcttctggagcagagccgagacga 230
 DB 341 CTAGGCAGTTGGCGCAGCAGAGGAGAGAGGCGCGTTCGGGAGCAGAGCGGAGACGA 400
 QY 231 agcagttctggagtgccctgaacgccccctgagccctaccgacctggccactatggtcc 290
 DB 401 ACAGTTCGAGAGTGCTTAACGGCCCCCTGAGCCCTACCCGCCCTGGCCACTATGGTCC 460
 QY 291 agagctgtgggtgagcgcgctgtgcgcgacccgaaagccagcttctgtggttcaacc 350
 DB 461 ACAGGCTGTGGTGAGCGCCCTGCTGCGCACCGCGAAAGCCAGCTCTGTTGATCAACC 520
 QY 351 tqttaacctttggcctgagagtggttttggccgagggacatacctatgtgcgcctctgc 410
 DB 521 TGCTAACCTTTGGCTGGAAGTGTGTTTGGCCGCGAGGATCACCTATGTGCGCGCTCTGC 580
 QY 411 tqtgtaagtgggttagagagaagttcatgacctatgctgctggcattggtccagtgac 470
 DB 581 TGCTGGAAGTGGGGGTAGAAGAAGTTCATGACCATGGTGTGGGCATCGGTCACAGTGC 640
 QY 471 tgggctgtgtgtgtccgcctcttaggtcagcagtgaccactggcgctggagcctatg 530
 DB 641 TGGGCTGTGCTCTCTCCACTCTCTAGGCTCAGCGAGTGACACATGCGCGGAGCAGCTATG 700
 QY 531 gccgcgcgcgccttctatcgggcactgtccttgggcactcctgtgagcctcttctca 590

DB 701 GCCGCGCGGGCCCTTTCATCTGGGCGCTGTCTCTGGGCATCTCTGCTGAGCCTTTCTCA 760
 QY 591 tcccaagcccgctgctagcagagctctgtgcccgaatccacagcccttgagctgg 650
 DB 761 TCCCAAGGCGTGGCTGGCTGGCAGGCTGCTGTGCCCGGATCCAGGCCCTTGAGCTGG 820
 QY 651 cactgctcatcctggcggtgggctgctggaacttctgtgcccaggtgtgcttcaactccac 710
 DB 821 CACTGCTCATCTGGGCGTAGGGCTGCTGGACTTCTGTGCCCAGGTGTGCTTCACTCCAC 880
 QY 711 tggagccctgtctctgacctcttccgggaacccggaacactgtgccagggcctactctg 770
 DB 881 TGGAGCCCTGTCTCTGACCTGTTCGGGACCCGACCACTGTCCGCCAGGCTTACTCCG 940
 QY 771 tctatgcttcctatgacatcttggggctgctgctgggctacacctctgctgcatgactg 830
 DB 941 TCTATGCCCTTCATGATCAGTCTGTGGGGCTGCTTGGGCTACCTTCTGCTGCCCTGACT 1000
 QY 831 gggacacacagtgccctggccccctacctggggcacccagagagtgctcttggcctgc 890
 DB 1001 GGGACACAGTGCCCTGGCCCCCTACTTGGGCACCCAGGAGGAGTGCCCTTTTGGCCTGC 1060
 QY 891 tcacctctactctctcaactcgtctagcagcacaactgctggtgctgagggagcagcgc 950
 DB 1061 TCACCTCTCATCTTCTCTACCTGCTAGCAGCAGCAGCTGCTGTGGCGGAGGAGCAGCAG 1120
 QY 951 tgggccccacagcagcagcagagagtgctgcgccccctccttctgcgccccactgctgc 1010
 DB 1121 TGGGCCCCCGCAGGACGCGGAAGGCTGTCTGCCCCCTCCCTGCGCTGCCACTGCTGTGC 1180
 QY 1011 catgctggcgccgctgtgcttccggaacctggcgccccctgcttccccggctgcaccagc 1070
 DB 1181 CGTGTGGGCCCCGCTGGCTTTCCGGAACCTTGGGCGCCCTGCTTCCCCGCTGCACACG 1240
 QY 1071 tctgtgcgcgactgcccgcacacctgcgcgctcttctggtcagctgtgacagctga 1130
 DB 1241 TGTGTGCGCGATGCGCCCGCACCTCGCGCGCTCTCTGCTGTGAGCTGTGCAGCTGA 1300
 QY 1131 tggcactcatgacctcaactgctgttttacacgagattctggtggcgagggctgtacag 1190
 DB 1301 TGGCACTCATGACCTTACGCTGTGTTTACACGAGATTCGTGGCGGAGGGCTATACCA 1360
 QY 1191 gctgtcccagagctgagccgggacacgagggcccgagacactatgatgaagcgcttcga 1250
 DB 1361 GGTGCCCCAGAGCTGAGCTGGGACCGAGCCCGGAGACACTATGATGAAGCGTTCGGA 1420
 QY 1251 tgggagcctggggctgttctcagagtgccgacatctccctggtctctctctggtcatgg 1310
 DB 1421 TGGGCGAGTGTGGGGCTGTCTCTGCAAGTGGCCATCTCCCTGCTCTCTCTGGTCA 1480
 QY 1311 accgctggtgcagcgattcggcactcagcagctctatttggccagtggtggcagcttcc 1370
 DB 1481 ACCGCTGGTGCAGCGATTGCGCACTCGAGCAGTCTATCTGGCCAGTGTGGCAGCTTCC 1540
 QY 1371 ctgtggctgcccgggtgccacatgcttccagcagtggtggccgctggtgacagcttcagcg 1430
 DB 1541 CTGTGGCTGCCGGTGCCAGCTGCTCCACAGTGTGGCTGTGGTGTGAGCGCTTCAGCG 1600
 QY 1431 ccctcacccgggttcaactctcagccctcagcactcagcactcctacacactggcctcct 1490
 DB 1601 CCTTACCTGGGTTCACCTTCTCAGCCCTGCAGATCTTCCCTTACACATGGGCTTCCCT 1660
 QY 1491 accacggggaagcaggtgttccctgcccacacacacgagggagacactgagtgctaga 1550
 DB 1661 ACCACGGGAGGAGGAGGTGTCTTCTGCCAATACCGAGGGGACGCTGGAGCAGCTAGCA 1720
 QY 1551 gtgaggaagcctgatgaccagcttctgtccagggcccttaagcctggagctcccttcccta 1610
 DB 1721 GTGAGGACAGCTGATGACTAGCTTCTTCTGCCAGGCCCTAAGCCTGGAGCTCCCTCCCTA 1780
 QY 1611 atggacacgtgggtgctgagagcagtgccctgctccacacctccacccgctctgctgggg 1670
 DB 1781 ATGGACAGTGGTGTGGAGGAGTGGCTTCTTCTCCACCTCCACCCCGCTCTCGCGGG 1840

QY	1671	cctctgccttgatgtctccgtacatgttggttggttgagccacacagagccaggttg	1730
DB	1841	CTCTGCCTCGGATGTCCTGTACGTGTGGTGGGTGACCCACGAGCGAGGTGG	1900
QY	1731	ttccggccggggacatctgcctggacctgcgcacatctcctgtagtgcttctctgtctcc	1790
DB	1901	TTCCGGCCGGGGCACTGCTGCCCTGGACCTCGCCATCTGGATAGTGCCTTCTCGTGTGCC	1960
QY	1791	agtgcccacatccctgtttaaggctccattgtccagctcagccagctcgtcactgcct	1850
DB	1961	AGGTGGCCCGTCCCTGTTTCATGGGCTCCATGCTCCACTGAGCGAGTCTGTCTACTGCCCT	2020
QY	1851	atatgtgtctgcgcgagccctgggtctcgtgtgcgcatttaacttgtctacacagtagtat	1910
DB	2021	ATATGGTGTCTGTGCGAGCCCTGGGTCTGGTTGGCCATTACTTGTCTACACAGGTAGTAT	2080
QY	1911	ttgacaagagcacttggccaaatacctaagctagaacaaattccagcacattggggtgga	1970
DB	2081	TTGACAAGAGCGCACTTGGCCAAATACCTGGTGTGAAAACTTCCAGACATTTGGGGTGGA	2140
QY	1971	gggcctgcctcactgggtcccagctccccgtctc-tgttagcccacatgggctgcgggc	2029
DB	2141	GGGCTTGCTCACTGGTCCAGCTCCCACTCTTTGTTAGCCCCATGGGGCTCTCTGGGC	2200
QY	2030	tggccgccagttctgtgtgcacaaagtaattgtggctctctgtgcacccctctgtctgc	2089
DB	2201	TGGCCGCCAGTTTCTGTGTGCTGCCAAGTAAATGTGGCTCTCTGTGTCACACCTGTGCTGC	2260
QY	2090	tgaagtgcattagctgcacagctggggctggggctccctctctctctcccagttctct	2149
DB	2261	TGAGGTGCTGTAGTGCACAGCTGGGGCTTGGGGCAATCCCTCTCCCTCCCACTCTCT	2320
QY	2150	agggctgcctgactggagccttccaaaggggttttcagctcgtggacttatacagggagccc	2209
DB	2321	AGGGCTGCCCTGACTGGAAGCCTTCCAAGGGGTTTCAGTCTGGACTTCTACAGGGAGGCT	2380
QY	2210	agaagg-----gctccatgcactggaatggggactctcaggtgcat	2253
DB	2381	AGAAAGGCGAGGCAATTTGATTTGGCTCCATGCTACTGGATGTGGGGACTCTCAGGTTGGAT	2440
QY	2254	taccagctcagggttaacagctagcctccctagttgagacacactagagaagggtttt	2313
DB	2441	TACCCAGGCTCAGGTTTACAGCTAGCCCTCCTGGCTGAGACATACCTAGAGAAGGGCTT	2500
QY	2314	tgggagctgaaataactcagtcacctgggtttccccatctctaaag-cccccttaacctgcagc	2372
DB	2501	TGGAGCTGAGTAAATCACTACCTTGGTTTCCCACCTCTAAGCCCCCTTAACCTGACGC	2560
QY	2373	ttggttaatgagctcttcagatggagttctagatgaaacactctccatggattt	2432
DB	2561	TTCAATTAATGTAGCTTGTGCATGGGAGTTTCTAGATGAACACTCTCCGTGGGATTT	2620
QY	2433	gaacatag--actattttaggggaagctccttagggggcaacacagaagaaccaggt	2490
DB	2621	GAAGCTATGAACAATTTTGTAGGGGAACAGTCTCTGAGGGCAACAC-----ACCAGGT	2674
QY	2491	ccctcagcccaacagcactgtcttttgtgtatccacccccctcttaocttttatcagga	2550
DB	2675	CCCCTCAGCCACACAGCACTGCCCTTTTGTGTGATCC-CCTGACTCTTACCTTTTATCAGGA	2733
QY	2551	tgtggcctgtgtctctctgttgccatcacagacacagcatttaatatiaactt	2610
DB	2734	CGTGGCCCTATTGTGTCCCTTTGTTGGCCATCATAGGGACACAGGCATTTAAATTTAACTT	2793
QY	2611	atttatttaacaagttagaagggaatccattgctagcttttctgtgttggtgtcctaataat	2670
DB	2794	ATTTATTAAACAAGTAGAAGGGAATCCATTTCCTAGCTTTTGTGTGTTGGTGTCTAAGAT	2853
QY	2671	tgggtagggtggggatccccacaacatcaggtccccctgagatagctggctcattgggctg	2730
DB	2854	TTGGGTAGGCT--GGGATCCCCAACAAATCAGTCCACTGAGATCACTGGTCATTGGGCTG	2911

	QY	2731	atcattgccagaattcttcttcctcggtggtttgcggcccccataaacgaccttaaccaggacc	2790	
Db	2912	ATCATTTGCAGAAATTCTTCTCCTGGGGTGTCGCTCAAAATGCCATAACCCAGGACC	2971		
QY	2791	ttagaaattctactcatccccaaaatgaataatccaaatcgtgtacccaaggttaggggtg	2850		
Db	2972	TGGGAATTTTACTCATCCGACGTATATTCCAAATGCTGTTACCAAGGTTAGGGGT	3031		
QY	2851	tgaaggaaggttagaggggttgctcaggtctcaacggcttcctccataaccaccctcttt	2910		
Db	3032	TGAAGAAGGTGGAGGGTGGGCTTCAGGTCTCAACAGCTTCCCFAACACACCCCTTCT	3091		
QY	2911	cttgccacagctgggttccccccacttcacactccctctactctctctagactgggtg	2970		
Db	3092	CTTGCCCGAGCTGGTTCGCCCACTTACTACCCCTCTACTGCTCTAGGACTGGGTG	3151		
QY	2971	atgaaggcacgtgcccaaatctccctaccgcccaacttccctaccgcccaacttcccc	3030		
Db	3152	ATGAAGGCACCTGCCGTGAATT-----CCCTCACCCCAACTTTCCCC	3194		
QY	3031	accagctccacaacccctgttgagctactgcaggaccagaagcacaagtgcgggttcc	3090		
Db	3195	ACTGCTCCACAACCCCTTTGGAGCTGTTCGAGGACCAAGCAAGTGTGGTTTCC	3254		
QY	3091	caagccttgtccatctcag-ccccccagatatctgtgtggggaatctcacacaga	3149		
Db	3255	CAGGCTTTGTCATCTCAGCCCCCAGATATCTGCTTGGGGATCTCACACAGA	3314		
QY	3150	aactcagagcacccctgcctgagctaaaggaggtcttatctcagggggggtttaag	3209		
Db	3315	AACTCAGGAGCACCCCTGCCTGAGCTAA-GGAGGCTCTATCTCTCA-GGGGGTTTTAAG	3372		
QY	3210	tgcgtttgcaataatgtcgcttatttatttagcgggtgaatattttactactaagt	3269		
Db	3373	TGCCCTTTGCAATAAT--GTCCTTATTTATTAGCGGGGCAAAATTTTATCTGTAAGT	3429		
QY	3270	gagcatcagagcataatgtttatggtgacaaaattaaaggcttcttatgttttaaaa	3329		
Db	3430	GAGCAATC-AGTATAATGTTTATGCTGATGAATAATAAGGCTTCTTATATGTTAAAA	3487		
QY	3330	aaaaaaaaaaaaaaaaaaaaaaa 3356			
Db	3488	AAAAAAAAAAAAAAAAAAAAAAAAA 3514			
RESULT	8				
AX200995	AX200995	4034 bp	DNA	linear	PAT 29-AUG-2001
LOCUS	Sequence 625 from Patent WO0151633.				
DEFINITION	AX200995				
ACCESSION	AX200995				
VERSION	AX200995.1	GI:15390822			
KEYWORDS	human.				
SOURCE	Homo sapiens				
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
REFERENCE	Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.				
AUTHORS	1 (bases 1 to 4034)				
	Xu,J., Dillon,D.C., Mitcham,J.L., Harlocker,S.L., Jiang,Y.,				
	Reed,S.G., Kalos,M.D., Fanger,G.R., Day,C.H., Retter,M.W.,				
	Stolk,J.A., Skelky,I.A., Wang,A., and Mesgher,M.J.				
TITLE	Compositions and methods for the therapy and diagnosis of prostate cancer				
JOURNAL	Patent: WO 0151633-A 625 19-JUL-2001;				
FEATURES	CORIXA CORPORATION (US)				
source	Location/Qualifiers				
	1..4034				
	/organism="Homo sapiens"				
	/db_xref="taxon:9606"				
BASE COUNT	721 a 1226 c 1141 g 946 t				

Query Match

75.88; Score 2585.4; DB 6; Length 4034;

Best Local Similarity 82.4%; Pred. No. 0;			
Matches 3325; Conservative 0; Mismatches 1; Indels 709; Gaps 3;			
QY	4	aaccagctgcacgctgctccggtgacagcgcgcctcgccaggtatctgagtg	63
Db	1	AACCAAGCTGCAACGGCTGCTCCGGTGCACAGCCGCGCTCGGCCAGGATCTGAGTG	60
QY	64	atgagacgtgtcccaactagtgcccacagcagcagtggtgagcatgggctagaag	123
Db	61	ATGAGACGTGTCCCACTAGGTGCCCCACAGCAGCAGGTGTGAGCATGGGCTGAGAG	120
QY	124	ctgagccggcaccaaaggctgcagaaatggcgctgctgctgattccttaggcagtggtgc	183
Db	121	CTGGACCGGCACCAAGAGGCTGGCAGAAATGGCGCTGGCTGATTCCTAGGCACTGGC	180
QY	184	ggcagcaaggagagagggcgcagcttctggagcagagccgagagcaagaattctggag	243
Db	181	GGCAGCAAGAGGAGAGGCGCGAGCTTCTGGAGCAGAGCGAGACAGTTCCTGGAG	240
QY	244	tgctgaacggccctgagccctacccgctggccactatggtccagaggtgtgggt	303
Db	241	TGCTGAACGGCCCTGAGCCCTACCCGCTGGCCACTATGCTCCAGAGGCTGTGGGT	300
QY	304	gagccgctgctgoggcacggaaagccagctcttgctggtggtcaacctgctaacctttgg	363
Db	301	GAGCCGCTGCTGCGGCACCGAAAGCCAGGCTTGTGCTGGTCAAGCTGCTAACCTTTGG	360
QY	364	ctgagaggtgtttggccgcaggaataccctatgcccctctgctgctgaaagtgg	423
Db	361	CCTGGAGGTGTGTTGGCCGCGAGGCATACCTATGTGCCGCTCTGCTGCTGGAAGTGGG	420
QY	424	ggtagaggagaagtcatgaccatgctgctgggcattggtccagtgctgggctggtctg	483
Db	421	GGTAGAGGAGAAAGTTATGACCATGTGTGGCATTTGTGTCAGTGTCTGGGCTGGTCTG	480
QY	484	tgtcccgctctaggtcagcagtgtaaccactggctggagcctatggcgcgcgcgcgcgc	543
Db	481	TGTCCCGCTCTTAGGCTCAGCCAGTGAACCATGGCGCTGGACGCTATGGCCGCGCGGCG	540
QY	544	cttcacttgggactgctctgggactcctgctgagcctcttctcactcccaaggcgccg	603
Db	541	CTTCATCTGGGCATGCTCCTGGGCATCTGCTGAGCCCTTTCTTCATCCCAAGGGCGG	600
QY	604	ctggctagcagggctgctgcccgaataccagggcccttgagctggagctgctcaatct	663
Db	601	CTGGCTAGCAGGGCTGCTGTGCCGATCCACAGGCCCTGGAGCTGGCACTGCTCATGCT	660
QY	664	ggcgctggggctgctgagctctctggtggcaggtgtgcttcaactccaactggagccctgct	723
Db	661	GGCGGTGGGGCTGCTGGACTTCTGTGGCCAGGTGTCTTCACTCCCACTGGAGGCCCTGCT	720
QY	724	ctctgaccttctccgggacccggaccactgtgcagggcctactctgtctatgcttcaat	783
Db	721	CTCTGACCTTCTCCGGAGCCGGACCACTGTCCGCCAGGCTACTGTCTATGCTGCTCAT	780
QY	784	gatcagcttggggctgctgggctacactcctgctgcctgctcattgactggagaccagtcg	843
Db	781	GATCAGTCTTGGGGCTGCTGGGCTTACCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	840
QY	844	cctggccctcactgctgggacccagagagtgctcttggcctgctcactcactcactctt	903
Db	841	CCTGGCCCCCTACTGGGCACCCAGGAGAGTGCCTCTTTGGCCTGCTCAGCCTCATCTT	900
QY	904	cctcaactgcgtagagcacacactgctggtgctgagaggagcagcctgggcccacaga	963
Db	901	CCTCACTCTGCTAGCAGCACACTGTGTGGTGTGAGGAGGAGCGCTGGGCCCCACCA	960
QY	964	gccagcagaaggctgctggccctccttctgcccacactgctgtccatgcccggcccg	1023
Db	961	GCCAGCAGAGGGCTGCTCGGCCCTCTCTGTGCCCCCACTGCTGTGCTGCTGCTGCTGCT	1020
QY	1024	cttgggttcccgaaacctggggccctgcttcccgcgctgacaccagctgtgctgcagat	1083
Db	1021	CTTGGCTTTCCGAACCTGGGGCCCTGCTTCCCGGCTGCACCACTGCTGCTGCCGAT	1080
QY	1084	gcccgcacccctgcgcgcgtctctgctgagctgtgacgtgtgacgtgacgtgacgtgac	1143
Db	1081	GCCCGCACCTGCGCCGCTTCTGCTGGCTGTGAGCTGTGCAGCTGGATGGCACTCATGAC	1140
QY	1144	cttcacgctgttttacacggatttctggtggcaggggctgtaccacggcgtgtgccagagc	1203
Db	1141	CTTCACGCTGTTTACACGGATTCGTGGCGAGGGGCTGTACCAAGGCGTGGCCAGAGC	1200
QY	1204	tgagccggccacggagcccgagacactatgatga	1239
Db	1201	TGAGCCGGCCACCGAGGCGCGAGACACTATGATGAAGTAAAGGCTTGGCAGCAGAG	1260
QY	1240	-----	1239
Db	1261	AGGCTGCTGGGAGCCGCCACACAGACACACTCGGGGCTGTGTCTGGGCTGGTGCC	1320
QY	1240	-----	1239
Db	1321	TCTCCATCTGGCCCCGACTTCTCTGTCAAGAAAGTGGGATGGACCCCATCTGCATACA	1380
QY	1240	-----	1239
Db	1381	CGGCTTCTCATGGGTGTGAACATCTGTCTTGGGTTTCAGGAAGGCTCTGGCTGTCTC	1440
QY	1240	-----	1239
Db	1441	TAGGAGTCTGATCAGAGTCTTGTGCCAGTGTGACAGAAGAAAGGCGGAGCTTATTCAA	1500
QY	1240	-----	1239
Db	1501	AGTCTAGAGGAGTGGAGGATTAAGGCTGGATTCAGATCTGCTGCTTCCAGCCGAG	1560
QY	1240	-----	1239
Db	1561	TGTGCCCTCTGCTCCCCAACGACTTTCCAAATATCTACCAGCGCTTCCAGCTCAGG	1620
QY	1240	-----	1239
Db	1621	CGTCTAGAGGCGTCTTGAAGCCTATGCCAGCTGTCTTTGTGTTCCCTCTCAOCCGGCT	1680
QY	1240	-----	1239
Db	1681	GTCTCTACAGCTGAGACTCCCAAGAAACCTTCAGACTTACCTTCTGCTGCCITCAGCAAG	1740
QY	1240	-----	1239
Db	1741	GGCGTTGCCCATTTCTCTGAGGGTCAAGTGAAGAAACCTAGACTCCCATTTGCTAGAGATA	1800
QY	1240	-----	1239
Db	1801	GAAGGGGAAGGTGCTGGGGAGCAGGCTGGTCCACAGCAGGTCTCGTGCAGCAGGTAC	1860
QY	1240	-----	1239
Db	1861	CTGTGTTCCGCTTCTCATCTCCTGAGACTGTCTCCGACCTTCCCTCCCAAGGCTGT	1920
QY	1240	-----	1277
Db	1921	CTGATGGCCCCCTCTCCCTCTGCAGGCGTTCGGATGGGAGCCTGGGCTGTTCCTGCACT	1980
QY	1278	ggcgcatctccctgggtctctctctggtcatggaccggctggtgacgagattcgcactc	1337
Db	1981	GGGCCATCTCCTGCTCTCTCTGCTGATGACCGGCTGGTGCAGCATTCGGCAGCTC	2040
QY	1338	gagcagctatttggccaggtgtggcagcttccctgtgtggctgcccaggtgccacatgctgt	1397
Db	2041	GAGCAGCTATTGTCAGTGTGGCAGCTTTCCCTGTGGCTGCGCGTGCACATGCTGT	2100
QY	1398	ccacagctgagcgtgtgacagcttcagcgccctcaccgggttcaccttctcagccc	1457
Db	2101	CCACAGTGTGGCCGCTGTGACAGCTTCAGCGGCCCTCACCGGGTTCACCTTCTCAGCCC	2160

Qy	2536	tacotttttacagagatgtggcctgttggtccctctctgtgtgccaatcacagagacacagagcat	2539
Db	3241	TACOTTTTATCAGAGATGT- GCCTGTTGGCTCTCTGTGTGGCCATCACAGAGACACAGGAT	3299
Qy	2596	ttaaatattaaactatttattttaacaaagtagaagggaatccattgtctagctttcttctgt	2655
Db	3300	TTAAATATTTAACCTATTATTATTTAACAAAGTAGAGGGAATCCATTGCTAGCTTTCTGT	3359
Qy	2656	gttggtgtctaaatatttgggttaggggtgggggataccccaaacatacaggttcccttgagatag	2715
Db	3360	GTTGGTCTCTAATAATTGTTGGGTAGGTTGGGGGATCCCAACAATCAAGTCCCTCTGAGATAG	3419
Qy	2716	ctggtcattgggctgcatctatccagaatactctctctctctggtggtctggtcccccaaat	2775
Db	3420	CTGGTCAATTGGGCTGATCATTTGCCAGAACTTCTTCTCTCTGGGGTCTGGCCCCCAAAAT	3479
Qy	2776	gcctaaaccagagaccttgaaattctactatcccaaaatgataaattccaaatctgctgttac	2839
Db	3480	GCCTAACCCAGGACCTTGGAATTTCTACTCATCCCAAAATGATAATTCCAAATGCTGTAC	3539
Qy	2836	ccaaggttaggggtgttgaaaggaaaggtagagggttgggggtctcaggtctctcaagcgttccct	2895
Db	3540	CCAAGGTTAGGGTGTTTGAAGGAAGGTAGAGGTTGGGGCTTCAAGTCTCAACGGCTTCCCT	3599
Qy	2896	aaccacacctctctctcttggtccagcagctggttctcccccacttccactccctctactctc	2955
Db	3600	AACCACCCCTCTCTCTCTGGCCAGCCTGGTTCCCCCCACTTCCACTCCCTCTACTCTCTC	3659
Qy	2956	tctaggactgggtgatgaaggcaactgcccacaaattccccctacccccaaatttccccta	3015
Db	3660	TCTAGGACTGGGTGATGAAGGCACTGCCCAAAATTTCCCTTACCCTCACTTTCCCTCA	3179
Qy	3016	cccccaacttccccaccagctccacaaacctgtttggagctactctgagagaccagaacaa	3075
Db	3720	CCCCCAACTTTCCCCACCAGCTCCACAAACCCCTGTTTGGAGCTACTGCAAGGACCAAGAACA	3135
Qy	3076	caaatgctcggtttcccaagccttcttccatctcagccccccagatatactctgtgcttggtg	3195
Db	3780	CAAAATGCGGTTTCCCAAGCCTTTGTCCATCTCAGCCCCCAGAGTATATCTGTGCTTGG	3839
Qy	3136	gaatctcacagaaactcaggagcaccacctgctgtgagctaaaggagggttctatctctc	3195
Db	3840	GAATCTCACACAGAAACTCAGGAGCACCCCCCTGCCTAGACTAAGGAGGAGTCTTATCTCTC	3899
Qy	3196	agggggggtttaagtccctttgcaataatgctgctctatttatttagcggggtgaatat	3255
Db	3900	AGGGGGGGTTAAGTCCGCTTTGCCAATAATGTCGTCCTATTATTATTTACGGGGTGAAATAT	3959
Qy	3256	tttatactgtaagtgcagcaatcagagataaattgttatgttgacaaaaattaaagcttctc	3315
Db	3960	TTTATACTGTAACTGAGCAATCAGAGTATAATGTTTATGTTGACAAAATTAAGAGCTTTC	4019
Qy	3316	ttatatgtttaaaaa 3330	
Db	4020	TTATATGTTTAAAAA 4034	

RESULT	9
AX267730	
LOCUS	AX267730
DEFINITION	Sequence 704 from Patent WO0173032.
ACCESSION	AX267730
VERSION	AX267730.1 GI:16516402
KEYWORDS	.
SOURCE	human.
ORGANISM	Homo sapiens
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE	1 (sites)
AUTHORS	Xu, J., Dillon, D.C., Mitcham, J.L., Harlocker, S.L., Jiang, Y., Kalos, M.D., Fanger, G.R., Retter, M.W., Stolk, J.A., Day, C.H., Wedvick, T.S., Carter, D., Li, S.X., Wang, A., Skeiky, Y.A., Hepler, and Henderson, R.A.

TITLE	Compositions and methods for the therapy and diagnosis of prostate cancer									
JOURNAL	Patent: WO 0173032-A 704 04-OCT-2001; CORIXA CORPORATION (US)									
FEATURES	Location/Qualifiers									
source	1..4034									
	/organism="Homo sapiens"									
	/db_xref="taxon:9606"									
BASE COUNT	721 a	1226 c	1141 g	946 t						
ORIGIN										
Query Match	75.8%; Score 2585.4; DB 6; Length 4034;									
Best Local Similarity	82.4%; Pred. No. 0;									
Matches 3325; Conservative	0;	Mismatches	1;	Indels	709;	Gaps	3;			
QY	4	aaccagcctgcacg	ctggctccgggtgacagccgcgcgcctcgccagatctgagtg	63						
Db	1	AACCAGCCTGCAC	GCCTGGCTCCGGGTGACAGCCGCGCCTGGCCAGGATCTGAGTG	60						
QY	64	atgagacgtgtcccca	ctagaggtgtccccacagcagcaggtgtttagacaatgggctggaagaag	123						
Db	61	ATGAGAGCTGTGCC	CACTGAGGTGCCCCACAGCAGCAGGTTGTGAGCATGGGCTGAGAAG	120						
QY	124	ctggaccgycacc	aaaggctggcagaaatgggcgcctggctgattccttaggcaggtgggc	183						
Db	121	CTGGACCGCACCA	AAAGGCTGGCAGAAATGGGCGCTGGCTGATTCTTAGCAGCTTGGC	180						
QY	184	ggcagcaagagag	agggcgcagcttctggagcagagccgagacgaagcagttctctggag	243						
Db	181	GGCAGCAAGAGG	AGAGGCGCGAGCTTCTGGAGCAGAGCCGAGACGAAGCAGTCTGGAG	240						
QY	244	tgcctgaacggc	ccccctgagccctaccgctccgccaactatggtccagaggcctgtgggt	303						
Db	241	TGCTTGAACGG	CCCCCTGAGCCCTACCCGCTGGCCCACTATGGTCCAGAGGCTGTGGGT	300						
QY	304	gagccgctgctgc	ggcaccggaagccagctcttctggtgtcaacctgtcaacctttgg	363						
Db	301	GAGCCGCTGCTG	CGGCACCGGAAAGCCAGGCTTGTGCTGGTCAACCTGCTTAACCTTTGG	360						
QY	364	cttgagagtggt	ttggcccgaggaacacattatggccctctgctctgggaagtggg	423						
Db	361	CTTGAGAGTGT	GTGTGGCCGAGGACATCACCTATGTGCCGCTCTGCTGTGGAAGTGGG	420						
QY	424	ggtagagagaagt	tcatgaccatgctgctgggcattgttccagtgctggccctggtctg	483						
Db	421	GGTAGAGAGA	AGATTTCATGACCATGGTGTGGCATGTGTCCAGTGTCTGGGCTGTGCTG	480						
QY	484	tgtccgctcctag	gtcagccagtgaccactggcgtggacgctatggccgcgcgcgcgc	543						
Db	481	TGTCCCGCTCT	TAGGCTCAGCAGTGAACACTGGCGTGGAGGCTATGGCGCCGCCCGCGGCC	540						
QY	544	cttcactgggac	tctcttggaacacgctgtagcctcttctccatcccaaggccgg	603						
Db	541	CTTCACTGGG	CACTGCTTGGGCACTGCTGAGCCCTCTTCTCATCCCAAGGCGCG	600						
QY	604	ctggctagcagg	ggctgctgtgcccgatcccaggccctggagctggcactgtctcatct	663						
Db	601	CTGGCTAGCAG	GGCTGCTGTGCCGGATCCAGGCCCTGGAGCTGGCATCTGCTCATCTCT	660						
QY	664	gggcgtggggc	tgtggaactctgtggccaggtgtgttcaactcgaactggagccctgct	723						
Db	661	GGGCGTGGGG	CTGCTGGACTTCTGTGGCCAGGTGTGCTTCACTCCACTGGAGGCCCTGTCT	720						
QY	724	ctctgacctctc	cgggaccggacacactgtgcgcaggcctactctgtctatgcttcat	783						
Db	721	CTCTGACCTCT	TCCGGGACCCGGACCACTGTCCGCAAGGCTACTCTGTCTATGCTCTTCAI	780						
QY	784	gatcagcttggg	gctgctgggtacacctcctgcctgcattgactgggacaccagtc	843						
Db	781	GATCAGCTCT	TGGGGCTGCTGGGTACCTCCTGCCCTGGCCATTCAC'TGGGACACCACTGC	840						
QY	844	cctggccccctac	ctgggcaaccaggaggagtgctcttttggcctgctcaacctcatctt	903						

Db	841	CTTGGCCCCCTAC	TGGGCACCCAGGAGTGCTCTTTTGGCTGCTCACCCATCTT	900						
QY	904	cctcactcgttag	agccacacactgctggtgctgaaggagcagcgtggccccaccga	963						
Db	901	CCTCACCTCGT	AGCAGCCACACTGCTGTGTGCTGAGGAGGACGCTGGGCCCCACCA	960						
QY	964	gccagcagaagg	cgtgctggccccctccttctgcccccaactgctgctccatgccgggccc	1023						
Db	961	GCACGAGAAGG	CTGTGCGCCCCCTCTCTGTGCGCCCACTGCTGTTCATGCGGGCCCG	1020						
QY	1024	cttggcttccc	gaaacctggggccctgcttcccccggtgcaccagctgtgtgcgcgt	1083						
Db	1021	CTTGGCTTCCG	GAACCTGGCGCCCTGCTCCCGGCTGCACACAGCTGTGTGCGCGCAT	1080						
QY	1084	gccccgacccct	gccccggtcttctggtgagctgtcagctgtagtgcactcatgac	1143						
Db	1081	GCCCCGACCC	TGCCCCGCTCTTCTGTGCTGAGCTGTGAGTGTGAGCTGATGAC	1140						
QY	1144	cttcacgctgtt	tacacggatttcgtggcgaggggctgtaccagggcgtgccccagac	1203						
Db	1141	CTTCAGCTGT	TTTACACGGATTTCGTGGCGAGGGGCTGTACCAGGCGTGGCCAGAGC	1200						
QY	1204	tgagccgggca	cccgaggccccggagacactatgatga	1239						
Db	1201	TGAGCGGCA	CCGACCGCGGAGACATATGATGAAGGTAGGCTTGGCAGCCAGCAG	1260						
QY	1240	-----	-----	1239						
Db	1261	AGGCTGGTGT	GAGAGCCGCCACAGAGACACTCGGGGCTGTCTTGGGCTGGTGCC	1320						
QY	1240	-----	-----	1239						
Db	1321	TCTCCATCCT	GGCCCCGACTTCTCTGTGAGGAAAGTGGGATGGACCCCATCTGCATACA	1380						
QY	1240	-----	-----	1239						
Db	1381	CGGCTTTCAT	GGGTGTGAACATCTCTGCTTGGGTTCAGGAAGGCTCTGGGCTGCTC	1440						
QY	1240	-----	-----	1239						
Db	1441	TAGGAGCTGT	ATCAGAGTCGTTGCCCCAGTTTACACAGAGGAAAGCGGAGCTTATTCAA	1500						
QY	1240	-----	-----	1239						
Db	1501	AGCTAGAGG	GAGTGGAGGAGTTAAGGCTGGATTTCAGATCTGCTGTTCAGCGCCAG	1560						
QY	1240	-----	-----	1239						
Db	1561	TGTGCCCTCT	GCTGCCCAACGACTTTCAAAATAATCTCACCAGCGCTTCCAGCTCAGG	1620						
QY	1240	-----	-----	1239						
Db	1621	CGTCTAGAA	CGCTCTTGAAGCCTATGGCCAGCTGCTTTTGTGTTTCCCTCTCACCCGCT	1680						
QY	1240	-----	-----	1239						
Db	1681	GTCTCACAG	CTGAGACTCCCAGAAACCTTCAGACTACTCTCTCTGCTTTCAGCAAGG	1740						
QY	1240	-----	-----	1239						
Db	1741	GGCGTTGCC	CAATTCCTGAGGGTCAGTGGGAAGAACCTAGACTCCCATTTGCTAGAGGTA	1800						
QY	1240	-----	-----	1239						
Db	1801	GAAAGGG	AAGGTGCTGGGGACAGGGCTGGTCCACACAGAGTCTCTGTGACAGGTAC	1860						
QY	1240	-----	-----	1239						
Db	1861	CTGTGTTCC	GCTTCTCATCTCCCTGAGACTGCTCCGACCTTCCTCCAGGCTCTGT	1920						
QY	1240	-----	-----	1239						
					-----aggcgttcgattgggcagcctgggtcttccctcagt					

Db 1921 CTGATGGCCCTCTCCCTCTGAGCGTTCGGATGGCAGCCTGGGCTGTCTCTGCGT 1980
 Qy 1278 GCGCATCTCCCTGTTCTCTCTGCTGATGAGCGGCTGAGTGCAGGATTCGAGTTC 1337
 Db 1981 GCGCATCTCCCTGTTCTCTCTGCTGATGAGCGGCTGAGTGCAGGATTCGAGTTC 2040
 Qy 1338 GAGCAGTCTATTGCGCAGTGTGCGCAGTTCCTCTGCTGCGGTCGCGATGCGCTGT 1397
 Db 2041 GAGCAGTCTATTGCGCAGTGTGCGCAGTTCCTCTGCTGCGGTCGCGATGCGCTGT 2100
 Qy 1398 CCCACAGTGTGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1457
 Db 2101 CCCACAGTGTGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2160
 Qy 1458 TGCAGATCTGCGCTTACACAGTGTGCGCTTACACAGTGTGCGCTTACACAGTGTGCGCT 1517
 Db 2161 TGCAGATCTGCGCTTACACAGTGTGCGCTTACACAGTGTGCGCTTACACAGTGTGCGCT 2220
 Qy 1518 CCAATACCGAGGAGACTGGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1577
 Db 2221 CCAATACCGAGGAGACTGGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2280
 Qy 1578 TGCAGGCTTACGCTGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1637
 Db 2281 TGCAGGCTTACGCTGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2340
 Qy 1638 GCGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1697
 Db 2341 GCGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2400
 Qy 1698 TGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1757
 Db 2401 TGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2460
 Qy 1758 TCGCATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1817
 Db 2461 TCGCATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2520
 Qy 1818 CCATTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1877
 Db 2521 CCATTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2580
 Qy 1878 TGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1937
 Db 2581 TGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2640
 Qy 1938 CAGCGTAGAGAACTTCCAGCAGATTGGGGTGGAGGGCTTGCTGCTGCTGCTGCTGCTGCT 1997
 Db 2641 CAGCGTAGAGAACTTCCAGCAGATTGGGGTGGAGGGCTTGCTGCTGCTGCTGCTGCTGCT 2700
 Qy 1998 CCGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2057
 Db 2701 CCGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2760
 Qy 2058 TAAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2117
 Db 2761 TAAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2820
 Qy 2118 TGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2177
 Db 2821 TGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2880
 Qy 2178 TGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2237
 Db 2881 TGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2940
 Qy 2238 GACTGTGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2297
 Db 2941 GACTGTGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3000
 Qy 2298 CCTAGAGAGGGTTTTGGGAGCTGAATAAACTCAGTCACCTGCTGCTGCTGCTGCTGCTGCT 2357
 Db 3001 CCTAGAGAGGGTTTTGGGAGCTGAATAAACTCAGTCACCTGCTGCTGCTGCTGCTGCTGCT

Qy 2358 CCCTAACCTGCAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2417
 Db 3061 CCCTAACCTGCAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3120
 Qy 2418 TCTCCATGAGGATTTGAACATATTAATGTAAGGATTTGTAAGGATTTGTAAGGATTTGTA 2475
 Db 3121 TCTCCATGAGGATTTGAACATATTAATGTAAGGATTTGTAAGGATTTGTAAGGATTTGTA 3180
 Qy 2476 ACACAAGACCCAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2535
 Db 3181 ACACAAGACCCAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3240
 Qy 2536 TACCTTTATCAGGATGT-GCCTGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2595
 Db 3241 TACCTTTATCAGGATGT-GCCTGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3299
 Qy 2596 TTAATATTTAACTATTATTTAACTATTATTTAACTATTATTTAACTATTATTTAACTATTAT 2655
 Db 3300 TTAATATTTAACTATTATTTAACTATTATTTAACTATTATTTAACTATTATTTAACTATTAT 3359
 Qy 2656 GTTGGTGTCTAAATATTTGGGTAGGGTGGGGATCCCAACAAATCAGTCTCCCTGAGATAG 2715
 Db 3360 GTTGGTGTCTAAATATTTGGGTAGGGTGGGGATCCCAACAAATCAGTCTCCCTGAGATAG 3419
 Qy 2716 CTGGTCAATTGGGCTGATTCATTTGCGAGAACTCTTCTTCTGCGGCTGCGGCTGCGGCTGCG 3479
 Db 3420 CTGGTCAATTGGGCTGATTCATTTGCGAGAACTCTTCTTCTGCGGCTGCGGCTGCGGCTGCG 3485
 Qy 2776 GCTTAACTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGT 3539
 Db 3480 GCTTAACTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGT 3599
 Qy 2836 CCAAGGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGT 2895
 Db 3540 CCAAGGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGT 3599
 Qy 2896 AACCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2955
 Db 3600 AACCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3659
 Qy 2956 TCTAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGT 3015
 Db 3660 TCTAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGT 3719
 Qy 3016 CCCCCAATTTCCCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3075
 Db 3720 CCCCCAATTTCCCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3779
 Qy 3076 CAAAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGT 3135
 Db 3780 CAAAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGT 3839
 Qy 3136 GAATCTCAGCAGAACTCAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGT 3195
 Db 3840 GAATCTCAGCAGAACTCAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGT 3899
 Qy 3196 AGGGGGTGTAAAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGT 3255
 Db 3900 AGGGGGTGTAAAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGT 3959
 Qy 3256 TTTATCTGTAAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGT 3315
 Db 3960 TTTATCTGTAAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGT 4019
 Qy 3316 Ttatagttttaaaaa 3330
 Db 4020 TTATATGTTTAAAAA 4034

FEATURES		CORIXA CORPORATION (US)		Location/Qualifiers	
source		1.. 2904	/organism="Homo sapiens"	/db_xref="taxon:9606"	714 t
BASE COUNT	542 a	875 c	773 g		
ORIGIN					
Query Match 64.4%; Score 2196.4; DB 6; Length 2904;					
Best Local Similarity 88.2%; Pred. No. 0;					
Matches 2560; Conservative 0; Mismatches 1; Indels 343; Gaps 2;					
QY	770	gtctatccctcatgacagctcttggggtgctgctgggtacacctcctgctgcatgac	829		
Db	1	GTCTATGCCCTTCATGATCATGCTTTGGGGGCTGCTGGGTACCTCTCCCTGCCATTGAC	60		
QY	830	tgggacaccagtgccctggccctacactgggacccacagagagtgctctttggcctg	889		
Db	61	TGGGACACCAAGTGCCTTGGCCCTACCTGGGCACCCAGAGGAGTGCCTCTTTGGGCTG	120		
QY	890	ctaacctcatcttctcaactcgtgtagcagcaacactgctggtgagtgaggagcaagc	949		
Db	121	CTCACCTCATCTCTCCCTACCTGCGTAGCAGCCACACTGCTGTGGTGAAGGACAGCG	180		
QY	950	ctggggcccccagcagcagagggctgtcgggcccccctcttctgcccacctgctgt	1009		
Db	181	CTGGGCCCCACCGAGCCAGAGGGCTGTGCGCCCTCTCTTGTGCCCCACTGCTGT	240		
QY	1010	ccatgcggggcccgcttgggtttccggaacctgggcccctgcttcccccggctgcacag	1069		
Db	241	CCATGCCGGGCCCTTGGCTTTCCGGAACCTGGGCGCCCTGCTTCCCGGCTGCACCA	300		
QY	1070	ctgtgctgcgcagatgccccacacctgcccgggtcttctggtgagctgtgcagctgg	1129		
Db	301	CTGTGCTGCCGCATGCCCCACCCCTGCGCGGCTCTTCGTGGCTGAGCTGTGCAGTGG	360		
QY	1130	atggcactcatgaccttcacgctgttttacacgatttcgtggcgaggggctgtaccag	1189		
Db	361	ATGGCACTCATGACCTTCACGCTGTTTTACAGGATTTGTTGGCGAGGGGCTGTACCA	420		
QY	1190	ggcgtgccagagtgagccggccacccagggcccgagacactatgatgaa	1240		
Db	421	GGCGTGCCAGAGTGAGCGGGCACCGAGCGCCGGAGACACTATGATGAAGGAAGSCCT	480		
QY	1241	-----	1240		
Db	481	CTGGCTGCTCTAGAGGTCTGATCAGAGTCTGTGCCCCAGCTTTGACAGAGAAAGCGGA	540		
QY	1241	-----	1240		
Db	541	GCATTATTCAAAGTCTAGAGGGAGTGGAGAGTTAAGGCTGGATTTCAGATCTGCCTGGTT	600		
QY	1241	-----	1240		
Db	601	CCAGCCGAGTGTGCCCTCTGCTCCCCAACGACTTTCCAAATAATCTCACAGCGCCTT	660		
QY	1241	-----	1240		
Db	661	CCAGCTCAGCGGCTCTAGAGCGCTTTGAAGCCTATGGCCAGCTGTCTTTGTTCCTCTC	720		
QY	1241	-----	1240		
Db	721	TCACCCGCCCTGCTCCACAGCTGAGACTCCACAGGAACCTTCAGACTACCTTCCTCTGCC	780		
QY	1241	-----	1240		
Db	781	TTACAGAAAGGGGCTTGCCACACATTCCTCTGAGGGCTTCGATGGGACGCTGGGGGCTGT	840		
QY	1269	tcctgcaatgcacatccctcctgctctctctgctgctgacacgctggtgacgcat	1328		
Db	841	TCCTGCAAGTGGCCATCTCCCTGGTCTCTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCT	900		
QY	1329	tcggcactcagcagctctatttggccagtggtggcagcttccctctgctggtgctggtgcca	1388		
Db	901	TCGGCACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTCCCTGTGGCTGCCGTGCCA	960		
QY	1389	catgctgtcccaactggtggtggtggtggtggtggtggtggtggtggtggtggtggtggt	1448		
Db	961	CATGCGCTGTCCACAGTGTGGCGTGTGTGACAGCTTTCAGCGGCCCTCACCGGTTACCT	1020		
QY	1449	tctcagccctcagatccctcctacacactgacctgacctgacctgacctgacctgacctg	1508		
Db	1021	TCTACGCCCTGACAGATCTTCCCTACACTGACCTGACCTGACCTGACCTGACCTGACCT	1080		
QY	1509	tgtctctgcccacaaatccaggggagacactggaggtggtggtggtggtggtggtggtggt	1568		
Db	1081	TGTTCTCTGCCAAATACCGAGGGGACACTGAGGTGCTAGCAGTGAAGACAGCTGATGA	1140		
QY	1569	ccagcttctcagcagcccttaagcctggagctcccttcccttaagcagcagctgggtgctg	1628		
Db	1141	CCAGCTTCTCTGCCAGGCCCTTAAGCTTGGAGCTCCCTTCCCTTAATGACACAGTGGGTG	1200		
QY	1629	gagcagtggtgctgctccacacctccacccgctctctgcccgggctctgctgctgctgct	1688		
Db	1201	GAGCAGTGGCCCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCTGCTGTGATGCT	1260		
QY	1689	ccgtacgtgtggtggtggtggtggtggtggtggtggtggtggtggtggtggtggtggt	1748		
Db	1261	CCGTACGTGTGTTGGTGGGTGAGCCACCGAGGCCAGGGTGTTCGGGGCGGGGCTCT	1320		
QY	1749	gctggaacctgcacactcctgtagtgcttctgctgcttctgctgcttctgctgcttctgct	1808		
Db	1321	GCCTGAGACCTTCGCATCTCTGGATGAGTGCCTTCTGCTGCTGCTGCTGCTGCTGCTG	1380		
QY	1809	ttatggctccattgtccagctcagccagctctgctcactgctataggtgctgctgctgct	1868		
Db	1381	TTATGGGCTCCATGTCCAGCTCAGCCAGCTCTGCTCAGCTATATGCTGTCTGCTGCTG	1440		
QY	1869	gctgggtgtggtggtggtggtggtggtggtggtggtggtggtggtggtggtggtggt	1928		
Db	1441	GCCTGGGTCTGGTGGCGCATTTACTTTGCTACACAGGTAGTATTTCACAGAGGCTGG	1500		
QY	1929	ccaaatactcagcgtgagaaacttccagcattgggggtgaggggctgctcactggtggt	1988		
Db	1501	CCAAATACTCAGCGTGAAGAACTTCAGACACTTGGGGTGGAGGGGCTGCTCCTCAGTGG	1560		
QY	1989	ccagctccccctgctgctttagcccatgggctgctgctgctgctgctgctgctgctgctg	2048		
Db	1561	CCAGCTCCCGCTCTCTGTAGCCCATGGGGCTGCGGGCTGCGCGCCAGCTTCTGCTG	1620		
QY	2049	ctgcccagaagtaagtgtgctctctgctgcccacctgctgctgctgctgctgctgctgctg	2108		
Db	1621	CTGCCAAAGTAATGTGGCTCTCTGCTGCCACCTGCTGCTGCTGCTGCTGCTGCTGCTG	1680		
QY	2109	gctgggggtggtggtggtggtggtggtggtggtggtggtggtggtggtggtggtggt	2168		
Db	1681	GCTGGGGGCTGGGGGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	1740		
QY	2169	ccttccaaagggtgttccagtctgctgacttatacagggagggccagaaagggtccactgct	2228		
Db	1741	CCTTCCAAAGGGGTTTCAGTCTGACTTATACAGGGAGGCCAGAGGGCTCCATGCACTG	1800		
QY	2229	gaatgcggggactcctcaggtgattaccaggtcaggttaccaggtcaggtcaggtcaggt	2288		
Db	1801	GAATGGGGGACTCTCAGGTGATTACCCAGGCTCAGGCTTAACTGAGCTTAACTGAGCT	1860		
QY	2289	tggacacacactagaaagggttttggagctgaataaactcagtcacactggttctccca	2348		
Db	1861	TGAGACACACTAGAGAGGGTTTTTGGGAGCTGAATAAATACTCAGTCACTGCTGTTCCCA	1920		
QY	2349	tctctaagcccttaacctgacgttctttaaagtactcttgcattgaggtggtggttctag	2408		
Db	1921	TCCTTAAGCCCTTAACCTGCAGCTTCGTTTAAATGATGCTCTTGTGATGCTGCTGAGG	1980		
QY	2409	atgaacacactcctccatggtggttgaacatatg--acttattgtgagggaagagctgctg	2466		

Db 721 TCACCGCCTGTCTCTCACAGCTGAGACTCCACGAGAAACCTTCAGACTACCTTCTCTGCTC 780
QY 1241 -----ggcgttcggatggcagcctcgggctgt 1268
Db 781 TTCAGCAAGGGCGTTCGCCACATCTCTGAGGGCTTCGGATGGCGCAGCCTGGGGCTGT 840
QY 1269 tctcagtgcccatctccctggtctctctctggtcatgacccgctgggtgcagcgat 1328
Db 841 TCCTGAGTGGCGCATCTCCCTGGTCTTCTCTGTCATGACGCCGCTGGTGCACGGAT 900
QY 1329 tccgactcagcagctctctatttggccagtgtggcagcttccctgtgggtgcggtgcga 1388
Db 901 TCGGCATCTGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGGCGTGCCA 960
QY 1389 catgctgtcccaagtgccgtgtgacagcttcagccctcagcaggttcaact 1448
Db 961 CATGCTGTCCCAAGTGTGGCGTGGTGACAGCTTCAGCCGCCCTTCACCGGTTCACT 1020
QY 1449 tctcagcctgcagatccctgcctacacactggcctccctctacacccgggagagcag 1508
Db 1021 TCTCAGCCTGCAGATCTCCCTACACACTGGCCTCCCTCTACCAACCGGAGAACGAG 1080
QY 1509 tgttcctgccaaataccgaggggacactggagggtgctagcagtgaggacagcctgatga 1568
Db 1081 TGTCTCTGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACAGCCTGATGA 1140
QY 1569 ccagcttctcggcagggcctaaagcctggagctccctccctaatggacacgtgggtgtg 1628
Db 1141 CCAGCTTCTGCGCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTTAATGGACACGTGGGTG 1200
QY 1629 gaggcagtggtcgtcccaactccacccggcctcgtcgggcctcgtcgtgtgatgtct 1688
Db 1201 GAGGCAAGTGGCCTGCTCCACCTCCACCCGCGCTCTGCGGGGCCCTCTGCTGTGATGCT 1260
QY 1689 ccgtacgtgtgggtgggtgagccacccagcaggggtgtccgggccgggggcattct 1748
Db 1261 CCCTACGTGTGGTGGTGGTGAGCCACCGAGGCCAGGGTGTTCGGGGCGGGGATCT 1320
QY 1749 gcttgacctgcacatccctggatagtgcttctcgtcgtccaggtggcccatccctgt 1808
Db 1321 GCCTGACCTCGCATCTCTGGATGTGCTTCTGCTGTCCAGGTGGGCCCATCCCTGT 1380
QY 1809 ttatggctccattgtccagctcagcagctgtcactcctafatgtgtgtcgcgag 1868
Db 1381 TTATGGGCTCCATGTTCAGCTCAGCCAGTCTGTCACTGCCATATATGTGTCTGCCGAG 1440
QY 1869 gcttgggtgtgtgcacattacttctgtacacagtagtatttgacaagagcagcttgg 1928
Db 1441 GCCTGGGTGTGTGCGCATTTACTTTGCTACACAGGTAGTATTTGACAAAGCGACTGG 1500
QY 1929 ccaataactcagcgtagaacttccagcacattgggtggaggccctgcctcactggt 1988
Db 1501 CCAATACTCAGCGTAGAAATTCACGACATTTGGGGTGGAGGGCTGCCCTACCTGGGT 1560
QY 1989 ccagctcccgctcctgttagcccatgggctgcgggctggcccgccagttctgttg 2048
Db 1561 CCCAGCTCCCGCTCTCTGTAGCCCATGGGCTGCCGGCTGGCGCCAGTTTCTGTGG 1620
QY 2049 ctgcacaaagtatgttgctctctgtgcacacccctgtgtcgtgaggtgcgtagctgcaca 2108
Db 1621 CTGCCAAAGTAATGTGGCTCTGTCTGCTGCCACCTGTGCTGCTGAGGTGCTAGCTGCACA 1680
QY 2109 gcttgggggtcgggggtccctcctctcccaagctctcagggctgctgactggag 2168
Db 1681 GCTGGGGGTGGGGCTCCCTCTCTCTCTCCAGTCTCTAGGGGTGCTGACTGGAGG 1740
QY 2169 ccttccaaaggggttccagctcgtgactatatacagggagggccagaaaggggtccactgactg 2228
Db 1741 CTTCCAAAGGGGTTTTCAGTCTGGACTTATACAGGGAGGCCAAGAGGGCTCCATGCACTG 1800
QY 2229 gaatcggggactctcaggtggattaccagggctcaggggttaacagctagcctcctagt 2288
Db 1801 GAATGGGGGACTCTCGAGGTGGATTACCGAGGCTCAGGGGTTAACAGCTAGGCTCTCTAGT 1860

QY 2289 ttagacacacctagagaagggttttggagctgaataaactcagtcacctcagttttccca 2348
Db 1861 TGAGACACACCTTAGAGAAGGGTTTTTGGAGGCTGAATAAATCACTCAGTCACTGGTTCCCA 1920
QY 2349 tctctaagcccttaacctgcagcttcgtttaatgtagctcttgcatggaggtttctag 2408
Db 1921 TCTCTAAGCCCTTAACCTGCAGCTTCGTTAATGTAGCTCTTGCAATGGAGTTTCTAGG 1980
QY 2409 atgaacactcctcatgggatttgaacatatg--acttattttaggggaagagctcgt 2466
Db 1981 ATGAACACTCTCTCATGGGATTGAACATATGAAGTTATTTGTAGGGGAAGATCCCTG 2040
QY 2467 aggggcaacacacagaacacaggtccctcagccacacagcactgtcttttctgtgatcca 2526
Db 2041 AGGGCAACACACAGACACAGCAGTCCCTCAGCCACACAGCACTGTCTTTTGTCTATCCA 2100
QY 2527 cccctctctaccttttatcaggaatgtggcctgttggcctctgttgccatcacagaga 2586
Db 2101 CCCCCCTCTTACCTTTATCAGGATGGCCCTGTTGGTCTCTCTGTGTCATCAGAGAGA 2160
QY 2587 cagcagcatttaaatatttaacttatttatttaacaaagtagaaggaatccattgctag 2646
Db 2161 CACAGCATTTAAATATTTAACTTATTTTAAACAAGTAGAAGGAATCCATTCGTAG 2220
QY 2647 ctttctgtgttgggtgtctaatatttgggtagggtggggatccccacaacatcaggtccc 2706
Db 2221 CTTTCTGTGTGGTGTCTAATATTTGGTAGGGTGGGGATCCCAACAATCAGGTCCC 2280
QY 2707 ctgatatagctgttcatttggcctgatcattgccaaactctctcctcggggtcgtgccc 2766
Db 2281 CTGATAGCTGTGTATGGGCTGATCATTCGCAAGATCTTCTTCTCTGGGGTCTGGCC 2340
QY 2767 ccccaaatgcctaaacccagggaccttggaaattctactcatcccaaatgatattccaaa 2826
Db 2341 CCCCCAAATGCTTAACCCAGGACCTTGGAAATTCCTACTCATCCCAATGATAATCCAAA 2400
QY 2827 tgcatttaccagaagtttaggtgttgaagaaaggtagaggttggggttcaggtctcaac 2886
Db 2401 TGCTTTTACCCAAAGGTTAGGGTGTGAAGAAAGGTAGAGGGTGGGCTTCAGGTCTCAAC 2460
QY 2887 ggtccctctaaacccctctctcttggccagcctgttccccccacttccactcccc 2946
Db 2461 GGCTTCCCTAACCCCCCTCTTCTCTGTCGCCAGCCTGTTCCCCCACTTCCACTCCC 2520
QY 2947 tctactctctctagagctgggctgatgaaggcactgccccaaatttccccctacccccac 3006
Db 2521 TCTACTCTCTTAGACTGGGCTGATGAAGGCACCTGCCCAAAATTTCCCTTACCCCAAC 2580
QY 3007 ttccccctaccccaacttccccccagctcccaaacctgttggagctactgcagga 3066
Db 2581 TTTCCCTTACCCCAACTTTCCCAAGCCTTTGCCATCTCAGCCCCCAGAGTATATCT 2640
QY 3067 ccagaagcacaagtgcggtttcccaagccttgtccatctcagccccccagagtatctct 3126
Db 2641 CCAGAAGCAACAAGTGGGTTTTCCCAAGCCTTTGCCATCTCAGCCCCCAGAGTATATCT 2700
QY 3127 gtgcttgggaatctcacaacagaactcagggacccccctgcctgagctaaaggaggtc 3186
Db 2701 GTGCTTGGGAATCTCACACAGAACTCAGGAGCACCCCTGCCTGAGTAAGGAGGTC 2760
QY 3187 ttatctcctcaggggggtttaaagtcggtttgcaataatgtcgtcttatttatttaggg 3246
Db 2761 TTATCTCTCAGGGGGTTTTAAGTGGCGTTTGCATAATGTCTCTTATTTATTAGCGG 2820
QY 3247 ggtgaataatttatactctaaagtgaagcaatcagagataaattttatgtgcaaaaattta 3306
Db 2821 GGTGAATATTTTATCTCTAAGTGAGCAATCAGAGTATAATGTTATGTTATTTAGCGG 2880
QY 3307 aaggctttcttatatttttaaaaa 3330
Db 2881 AAGGCTTTCTATATGTTTAAAAA 2904

Db 2991 CGCCCTCACCGGGTTCACTTCTCAGCCCTGCAGATCCTGCCCTACACACTGGCCTCCCT 3050
 QY 1489 ctaccacccgggagagcaggttctctgcccacaaataccagggagacacbtggagtgctag 1548
 Db 3051 CTACCACCGGGAGAGCAGGTCTCTGCCAAATACCGAGGGGACACTGGAGTGCTAG 3110
 QY 1549 cagttaggacacccctgatcacacagcttctccagccctcctaaagcttgagctccctccc 1608
 Db 3111 CAGTAGGAGACAGCCTGATGACCACTTCCTTGCCAGGCCCTTAAGCCTGGAGCTCCCTTCCC 3170
 QY 1609 taatgacacgtgggtgctggagcgatggcctgctcccacctcccacccgcgcctctgcgg 1668
 Db 3171 TAATGACACGTGGGNYTGGAGGCAGTGGCCTGCTCCACCTCCACCCGCGCTCGCG 3230
 QY 1669 ggcctctgctgtgatctcctcgtacgtgtggtggtgagccacccagagccaggtg 1728
 Db 3231 GGCCTCTGCCTGTGATGTCTCCGTACGTGTGGTGGTGGTGAAGTCCACGAGGCCAGGT 3290
 QY 1729 ggttcggggccggggcctgctgctgacccctgcacccctcctgagtagtgccttctctgtc 1788
 Db 3291 GGTTCGGGGCCGGGGCATCTGCTGACCTCGCCATCTCGCATCTGCTGCTGCTGCTC 3350
 QY 1789 ccaggtggccccaatccctgtttatgggtccattgtccagctcagccagctcgtcactgc 1848
 Db 3351 CCAGGTGGCCCATCCCTGTATGGGCTCCATGTGCCAGCTCAGCCAGTCTGTCACTGC 3410
 QY 1849 ctatatggtgtctgcgaagcctgggtctgctgcgcatttacttctgctacacagtagt 1908
 Db 3411 CTATATGGTGTCTGCGCGCAGGCTGGGTCTGGTCCGCACTTACTTTGTCTACACAGTAGT 3470
 QY 1909 atttgacaagagcacttggccaaatctactcagcgtgtagaaacttcagcacattgggggtg 1968
 Db 3471 ATTGACAGAGGACTTGSCCAATACTCAGCGTAGAAACTTCACGACACATTTGGGGTG 3530
 QY 1969 gaaggcctgcctactcaggttccagctcccccgtcctctgttagcccaatggggctgcggg 2028
 Db 3531 GAGGGCTGCCTCAGTCCAGCTCCAGCTCCCTGCTGTGTAGCCCATGGGGCTGCGGG 3590
 QY 2029 ctggccgcagcttctgtgctccaaagttaagtgtgctctctgctgcacccctgtgctg 2088
 Db 3591 CTGGCCGCCAGATTCTCTGTCTGCCAAAGTAATGTGGCTCTGCTGCTGCCACCTGTGCTG 3650
 QY 2089 ctgagdtgcgttagctgacagctgggggtggggcctccctctctctctctccccagctctc 2148
 Db 3651 CTGAGTGCCTAGCTGCACAGCTGGGGGTGGGGCTGCCCTCTCCCTCTCTCCACAGTCTC 3710
 QY 2149 tagggctgctgactgagggccttccaaaggggttcagctcgtgagacttatacagggagcg 2208
 Db 3711 TAGGGCTGCCTGACTGGAGGCCCTTCCAAAGGGGGTTTTCAGTCTGGACTTATACAGGGAGGC 3770
 QY 2209 cagaagggctccatgcactggaatgcgggaactctgcagtggtattaccagagctcaggg 2268
 Db 3771 CAGAGGGCTCCATGCTGGAATGGGGGACCTCTGAGGTGGATTACCGAGGCTCAGGG 3830
 QY 2269 ttaacagctagcctcctagttagacacacacacacacacacacacacacacacacacacac 2328
 Db 3831 TTAAACAGCTAGCCTCCTAGTTGAGACACACCTAGACAAAGGGTTTGGGAGCTGAATAAA 3890
 QY 2329 ctcaagtcacctggtttcccatctctaaagcccttaaccctcagctcgttcttaagttagct 2388
 Db 3891 CTCAGTCACTGGTGTTCCTCCATCTTAAGCCCTTAACCTTCAGCTTCGTTTAAATGATGT 3950
 QY 2389 ctgcatggaggtttctagatgaacacactccctccctggtggttgaacatag--actta 2446
 Db 3951 CTGTGATGGAGTTCTTAGATGAACACCTCCACCATGGGATTTGAACATATGAAGATTA 4010
 QY 2447 ttgttaggggaagagctcctgaggggcaacacacacacacacacacacacacacacacacac 2506
 Db 4011 TTTGTAGGGGAAGAGTCTGAGGGGCAACACACACACACACACACACACACACACACACAC 4070
 QY 2507 actgctcttttctgctacacacacacacacacacacacacacacacacacacacacacac 2566
 Db 4071 ACTGTCTTTTGTGTATCCACCCCTCTTACCTTTTATCAGGATGTGSCCTGTGTGGTCC 4130

QY 2567 ttctgtgcatcatcacaagacagcagcatttaataattttaaacttatttatttaacaaagt 2626
 Db 4131 TTCTGTGGCATTCACAGACACAGGCATTTAAATATTTAACTATTTATTTAAACAAAGT 4190
 QY 2627 agaagggaaatccattgctagctttctgtgtgtgtctcctaaattttgggttaggggtgggg 2686
 Db 4191 AGAAGGAATCCATTGCTAGCTTTTCTGTGTGTCTTAATATTTGGGTAGGGTGGGG 4250
 QY 2687 atcccaacaatcaggtccctcctgagatgctgtgtcattgggtgctcattgcccagaatct 2746
 Db 4251 ATCCCAACAATCAGGTCCCTGAGATAGCTGTGCTATTTGGGTGATCATTTGCCAGAACT 4310
 QY 2747 tctctctgggtctggcccccaaaatgcttaaccacagcagccttggaaattctactca 2806
 Db 4311 TCTTCTCCCTGGGGCTGGCCCCCAAAATGCCCTAACCCAGGACCTTGGAAATTTCTACTCA 4370
 QY 2807 tcccaaatgataattccaaatcgtgtacccaaggttaggggttaggggttagaaggaagtagag 2866
 Db 4371 TCCCAAAATGATAATTCAAATGCTGTACCCAAAGTTAGGGTGTGAAGGAAGGTAGAGG 4430
 QY 2867 gtgggcttcaggtctcaacggcttccctaaacacccctctctctctgtggccagcctggt 2926
 Db 4431 GTGGGGCTTCAGGTCTCAACGGCTTCCCTAACCCACCCCTCTCTCTTGGCCCCAGCTGGT 4490
 QY 2927 tcccccaacttccactccccctctactctctctaggtggtggtgaggaagcactgcccc 2986
 Db 4491 TCCCCCACTTCCACTCCCTCTACTCTCTCTAGGACTGGGTGATGAAGGCACTGCCCA 4550
 QY 2987 aaatttccccctaccccccaacttcccccaacttcccccaacttcccccaacttccccca 3046
 Db 4551 AAATTTCCCTACCCCCCAACTTTCCCTACCCCCCAACTTTCCCAAGCAGCAGTCCACAAACC 4610
 QY 3047 tgttgagactactgcagacacagaagcaaaagtcaggttccccaagccttctgctccatc 3106
 Db 4611 TGTTTGGAGCTACTTGAGGACCAAGACAAAGTGGGTTCCTCCCAAGCCTTTGTCATC 4670
 QY 3107 tcagccccagagtagtatctgtgcttggggaatctcacacagaaactcaggaagcagcccc 3166
 Db 4671 TCAGCCCCCAGAGTATATCTGTCTTGGGAATCTCACAGAAACTCAGGAGCACCCCC 4730
 QY 3167 tgcctgagtaagggagcttctatctctcaggggggggttaagtgcgttttgcaataag 3226
 Db 4731 TGCTTGTAGTAAGGGAGGTCTTATCTCTCAGGGGGGTTTAAGTGGCTTTGCAATAAGT 4790
 QY 3227 tgcgttatttatttagcgggtggaataatttatacttaagtgaagcgaatcagagataaa 3286
 Db 4791 TCGTCTTATTTATTAGCGGGGTGAATATTTTATCTGTAACTGAGCAATCAGAGTATAA 4850
 QY 3287 tgtttatggtgacaaaattaaagggttctcttatatgttttaaaaa 3330
 Db 4851 TGTTTATGTGACAAAATTAAGGCTTCTTATATGTTTAAAAA 4894

RESULT 14

AX267728
 LOCUS Sequence 702 from Patent WO0173032.
 DEFINITION
 ACCESSION AX267728
 VERSION AX267728.1 GI:16516400
 KEYWORDS
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 1 (sites)
 Xue,J., Dillon,D.C., Mitcham,J.L., Harlocker,S.L., Jiang,Y.,
 Kalos,M.D., Fanger,G.R., Retter,M.W., Stolk,J.A., Day,C.H.,
 Vedvick,T.S., Carter,D., Li,S.X., Wang,A., Skeiky,Y.A., Hepler,W.T.
 and Henderson,R.A.
 Tissue Compositions and methods for the therapy and diagnosis of prostate
 cancer
 Patent: WO 0173032-A 702 04-OCT-2001;


```

CORIXA CORPORATION (US)
FEATURES      Location/Qualifiers
  source      1..4894
              /organism="Homo sapiens"
              /db_xref="taxon:9606"
BASE COUNT   928 a 1448 c 1354 g 1163 t 1 others
ORIGIN
Query Match      62.88; Score 2142.8; DB 6; Length 4894;
Best local Similarity 80.1%; Pred. No. 0;
Matches 2872; Conservative 1; Mismatches 3; Indels 708; Gaps 2;

Qy 455 ggcattgtccagtcgtggcctgtgtgtcccgctccctagctcagccagtgaccac 514
Db 1311 GGCATTGGTCAGTGCTGGGCTGTGTGTCCCGCTCTCTAGGCTCAGCCAGTGACCAC 1370

Qy 515 tggcgtggaacgtatgcccgcgcgcgccttcattctggtgcaactgtctctgggcatcctg 574
Db 1371 TGGCGTGGACGCTATGGCGCGCGCGCCCTTCATCTGGGCACCTGTCTCTGGGCATCCTG 1430

Qy 575 ctgagcctctttccatcccaagggcgcgtggctagcagggctgctgtgcccggatccc 634
Db 1431 CTGAGCCTCTTCTCCTCCCAAGGGCGGCTGGCTAGCAGGGCTGCTGTGCCCGGATCCC 1490

Qy 635 agcccccctggagctggcaactgtctatccctgggctggtggctgctggacttctgtggcag 694
Db 1491 AGGCCCTTGGAGCTGGCACTGCTCATCTGGGCGCTGGGGCTTCCTGGACTTCTGTGGCCAG 1550

Qy 695 gtgtgttcactccactggagcctctctctgacctcttcccgggaccggaccactgt 754
Db 1551 GTGTGCTTCACTCCACTGAGGAGCCCTGCTCTGACCTCTTCCGGGACCCGGACCACTGT 1610

Qy 755 cgcaggcctactgtgttatgctcttcacatgatcagctgttggggctgctgggttacctc 814
Db 1611 GCCCAGGCTACTGCTGTATGCTTTCATGATCACTGTGGGGCTGCTGGGCTACCTC 1670

Qy 815 ctgctgcattgactgggacacagctgcccgtgcccctaccctggcaccagagagag 874
Db 1671 CTGCTGCTCATGTAGTGAGACACAGTGCCTTGCCCCCTACCTTGGGACCCACAGAGGAG 1730

Qy 875 tgcctctttggcctgctcacctcatcttctcactgctgtagcagccacactgctgggt 934
Db 1731 TGCCCTTTTGGCTGCTCACCTCATCTTCTCACTCGCTAGCAGCCACACACTGCTGTGTG 1790

Qy 935 gctgaggaggcagcgtggtggccacacagcagcagcagagggctgtcgcccctcttg 994
Db 1791 CTTGAGGAGGAGCGCTGGGCCCCCACCAGCCAGCAGAGGGCTCTCGGGCCCCCTCTCTTG 1850

Qy 995 tcgcccactgctgtccatgcccggccgcttggctttccggaaacctggggcgcctgctt 1054
Db 1851 TCGCCCCACTGCTGTTCATGCGGGCCGCTTGGGCTTTCCGGAACTGGGGCCCTGCTT 1910

Qy 1055 ccccggtgacacagctgtgtgcagatgcccgcacacctgcccggcctcttgggtgct 1114
Db 1911 CCCCGGCTGCACAGCTGTGTGGCGCATGCCCCGACCCCTGCGCGGCTCTTCTGTGGCT 1970

Qy 1115 gagctgtgcagctggtgagcactcatgaccttcacgctgttttacagggatttctgtggc 1174
Db 1971 GAGCTGTGCAGCTGGATGGCACTCATGACCTTCACGCTTTTACACGGAATTCGTGGGC 2030

Qy 1175 gaggggctgtaccagggcgtgcccagagctgagccggcagccagcccgagacactat 1234
Db 2031 GAGGGGCTGTACCAAGGCGTGCCAGAGCTGAGCGGGCACCGAGGCCCCGGAGACACTAT 2090

Qy 1235 atga- 1239
      |||||
Db 2091 GATGAAGTAAAGCCCTTGGCAGCCAGCAGAGCTGGTGTGGGAGCGCGCCACCAGAGACG 2150

Qy 1240 1239
Db 2151 ACACCTGGGGCTGTGTCTGGGCTGTGTCTCTCCATCTCTGGCCCCGAGCTTCTCTGTACG 2210

```

```

Qy 1240 ----- 1239
Db 2211 AAAGTGGGATGACCCCACTCTGCATACACGGCTTCTCATGGTGTGGAACATCTCTGCT 2270

Qy 1240 ----- 1239
Db 2271 TGGCGTTTCAGGAAGGCCTCTGGCTGCTCTAGGAGTCTGATCAGAGTCGTTGCCCCAGTT 2330

Qy 1240 ----- 1239
Db 2331 TGACAGAAGAAAGCGGAGCCTTATTCAAAGTCTAGAGGGAGTGGAGGACTTAAGGCTGG 2390

Qy 1240 ----- 1239
Db 2391 ATTTGAGATCTGCTGGTTCCAGCCGAGTGTCCCTCTGCTCCCCAACAGACTTTCCAA 2450

Qy 1240 ----- 1239
Db 2451 ATAACTCACACAGCGCTTCCAGCTCAGGCGTCTTAGAAGCGTCTTGAAGCCTATGSCCA 2510

Qy 1240 ----- 1239
Db 2511 GCTGTCTTTGTTCCTCTCTACCCGCTGTCTCAGCTGAGACTTCCAGGAAACCTT 2570

Qy 1240 ----- 1239
Db 2571 CAGACTTACCTTCTCTGCTTTCAGCAAGGGCGTTGCCACATCTCTGAGGGTCACTGG 2630

Qy 1240 ----- 1239
Db 2631 AAGAACTAGACTCCCACTTCTAGAGGTAGAAAGGGAGGGTCTTGGGGAGCAGGGCTG 2690

Qy 1240 ----- 1239
Db 2691 GTCCACAGCAGGCTCTGCTGACGAGGACTGCTGTGGTTCCGCCCTCTCATCTCCCTGAGAC 2750

Qy 1240 -----aggcgttcg 1248
      |||||
Db 2751 TGCTCCGACCTTCCCTCCAGGCTCTGTCTGATGGCCCCCTCTCTCTCGAGCGCTTCG 2810

Qy 1249 gatggcagcctgggctgttctgcaagtggccatctccctgctctctctctctggtcact 1308
      |||||
Db 2811 GATGGGAGGCTGGGGCTGTTCCTTGCAGTGGCCATCTCCCTGTCTCTCTCTCTCTCTCT 2870

Qy 1309 ggacccgctggtgcagcagcttcgcaactgcagcagctatttggccagtggtgcagcttt 1368
      |||||
Db 2871 GGACCGGCTGTGTCAGCGATTTCGSCACTTCGAGCAGTCTATTTGGCCAGTGTGCGAGCTTT 2930

Qy 1369 cctgtgtgctgcgggtgcacacatgctgtcccacagtgtagccggtggtgacagcttcagc 1428
      |||||
Db 2931 CCTGTGGCTGGCGGTGCCACATGCTCTCCACAGTGTGGCGGTGGTGTGACAGCTTCACTG 2990

Qy 1429 cgcctcacccgggttcaccttctcagccctgcagatcctgcctcacacactggcctccct 1488
      |||||
Db 2991 CGCCTCACCGGTTTCACTTCTCAGCCCTTCAGATCCTGCCCTTACACACTGGCTCCCT 3050

Qy 1489 ctaccacccgggagaagcaggtgttcttcgcccacaaataccagggggagacactggagtgtag 1548
      |||||
Db 3051 CTACACCCGGGAGAAGCAGGTTTCTTCCGCCAAATACCGAGGGGACACTGGAGGTGTCTAG 3110

Qy 1549 cagtggagcagcctgatgaccagcttctgcagggccctaaagcctggagctcccttccc 1608
      |||||
Db 3111 CAGTGGAGCAGCCTGATGACCAGCTTCTTCCAGGCCCTTAAGCCTGGAGCTTCCCTTCCC 3170

Qy 1609 taatggacagctgggtgtggtgagcagtgccctgctcccaacctccaccccgctctcggtg 1668
      |||||
Db 3171 TAATGGACAGCTGGGTGTGGAGGACGTGGCTCTCTCCCACTCCACCCGCGCTCTGCGG 3230

Qy 1669 ggcctctgctgtgatatctccgtacgtgtggtggtgagccaccagggagccaggggt 1728
      |||||
Db 3231 GGCCTCTGCTGTGTGTCTCCGTACCTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 3290

Qy 1729 ggttccggggcggggcacatctgctggacctgacctgacctgacctgacctgacctgacctg 1788

```

D	b	4371	TCCAAATGATAATTCCAATGCTGTACCCRAAGTTAGGGTGTTCAGAGGAAGTAGAGG	4437
Q	y	2867	gtgggcttcagtgctcaacgcggtcccttaaccacccccctctctctgtggcccagcctgggt	2926
D	b	4431	GTGGGGCTTCAGGTCTCAACGGCTTCCTTAACACACCCCCTCTCTCTCTGGCCCCAGCCTGGT	4490
Q	y	2927	tcccccaattccaactccctctaactctcttaggacctgggctatgaagcacctgccca	2986
D	b	4491	TCCCCCACATTCACACTCCCTCTACTCTCTTAGGACTGGGCTGATGAAGGCATTCGCCA	4550
Q	y	2987	aaattccccctacccccaaatttccccctaccoccccaactttccccaccagctcccaaaccc	3046
D	b	4551	AAATTTCCCTACCCTCAACTTTCCCTTACCCTTACCCTTCCCAACCAAGCTCCCAACCC	4610
Q	y	3047	tgttgtgagtactgcaggaccagaagaacaagtgcgggtttcccaagcctttgtccatc	3106
D	b	4611	TGTTTGAGGTACTGCAGGACCAAGAAGTCGCGTTTCCCAAGCCTTTGTGCCATC	4670
Q	y	3107	tcagccccagagtatatctgtgcttggggaatctcacacagaaaactcaggagcaccccc	3166
D	b	4671	TCAGCCCCAGAGTATATCTGTGCTTGGGAATCTCACACAGAAAATCAGGAGCACCCC	4730
Q	y	3167	tgctcgagctaaaggaggtettatctctcaggggggggtttaagtgcggttgcataaatg	3226
D	b	4731	TGCTTGAGCTAAGGGAGGCTTATATCTCTCAGGGGGGGTTTAAAGTCCCTTTTGCAATAATG	4790
Q	y	3227	tcgtcttatatttagcgggggtgaaatatattatactgtaagtgcagcaatcagagataaa	3286
D	b	4791	TCGTCTTATTATTATTAGCGGGGTGATATTTTATTACTGTAAGTGAGCAATCAGAGTATA	4850
Q	y	3287	tgtttatggtgcacaaattaaaggcttcttatatgtttaaaaa	3330
D	b	4851	TGTTTATGCTGACAAAAATTAAAGCTTCTTATATGTTTAAAAA	4894
RESULT_15				
ARL12295				
LOCUS				
DEFINITION				
ACCESSION				
VERSION				
KEYWORDS				
SOURCE				
ORGANISM				
REFERENCE				
AUTHORS				
TITLE				
JOURNAL				
FEATURES				
source				
BASE COUNT				
ORIGIN				
Query Match				
Best Local Similarity				
Matches				
Query				
Db				
Query				
Db				
Query				
Db				
Query				
Db				
Query				
Db				
Query				
Db				
Query				
Db				
Query				
Db				
Query				
Db				
Query				
Db				
Query				
Db				
Query				
Db				
Query				
Db				
Query				
Db				
Query				
Db				
Query				
Db				
Query				
Db				
Query				
Db				
Query				

Qy	1357	tgtggcagctttccctgtgtgctgcccgggtgccacatgcctgtcccacagttggtccgtgggt	14116
Db	181	TGTGGCAGCTTCCCTGTGSGTGGCGTGCCACATGCCTGTCCACACAGTGTGGCGGTGT	240
Qy	1417	gacagcttcagccgcctccacccgggttcaacctctctcagccctgcagatcctgcctacac	1476
Db	241	GACAGCTTCAGCGCGCTCACCGGGTTCACCTTCTCAGCCCTGCAGATCTCGCCTACAC	300
Qy	1477	actggcctccctctacacccggagaaacagggttctctgccaaataccagagggacac	1536
Db	301	ACTGGCTCCCTCTACACCGGGAAGCAGGTGTCTGCCAAATACCGAGGGACAC	360
Qy	1537	tggaggtgctagcagtggagacagcctgatgaccagcttctgcagcgcctcaagcctgg	1596
Db	361	TGGAGGTGCTAGCAGTAGGACAGCCTGATGACCAAGCTTCTGCCAGGCCCTAAGCCTGG	420
Qy	1597	agctcccttccctaaatggacacagtggtgtgtggaggcaagtggcctgtcccacctccacc	1656
Db	421	AGCTCCCTTCCCTTAATGSGACAGTGGGTGCTGGAGCGAGTGGCTGTCTCCACCTCCACC	480
Qy	1657	cgagctcgcgggacctgcctgtgatgtctccgtacsgtgtgtgtgggtgaagccac	1716
Db	481	CGCGCTCTGGGGGCGCTGCTGTGTATGTCTCCGTACGTGTGTGTGGTGGGTGAGCCAC	540
Qy	1717	cgaggccaggtgtgttcggggcggggcaatctgcctggacctgccatccttggaatgctc	1776
Db	541	CGAGGCCAGGCTGTTCGGGGCGGGGCATCTGCGTGACCTGCCATCGCCATCTGGATAGTC	600
Qy	1777	cttctcgtctccagtgtagcccatccctgttatgggtccattgtccagctcaagcca	1836
Db	601	CTTCTCTGTCCAGGTGGCCCAATCCCTGTTATGGGCTCCATGTGCAGCTCAGCCA	660
Qy	1837	gtctgcactgcctatatggtgtctgcgcagcggcctgggtctgtgcgcatttaatttgc	1896
Db	661	GTCTGTCACTGCTATATGTTGTCTGCCGACGGCTGGTCTGTGTCGCCATTTACTTTGC	720
Qy	1897	tacacaggtagtattgacaagagcagctggccaaatctcagcgtagaaaaactccag	1956
Db	721	TACACAGGTAGTATTTGACAAGAGCGACTTGCCCAAAATACTCAGCGTAGAAAACTCCAG	780
Qy	1957	caactgggttgagggcctgctcactcactgggtcccagctcccctcctctgttagcccat	2016
Db	781	CACATATGGGTGAGGGCTGTGCTCAGTGGGTCCACAGTCCCGCTCTGTTAGCCCAT	840
Qy	2017	ggggtccggggtggtcccgagtttctgtgtgccaaaagtaatgtggctctctgtctgc	2076
Db	841	GGGCTCGCGGCTGGCGCCAGTTTCTGTTGCTGCCAAAGTAATGTGGCTCTCTGTCTGC	900
Qy	2077	cacctgtgtctgaggttgctagctgcaagctgggggtgggggtgggggtccctctctct	2136
Db	901	CACCTGTGTCTGAGTGGCTAGCTGCACAGCTGGGGGTGGGGGTGCCCTCTCTCTCT	960
Qy	2137	ctcccagctcttagggctgctgactgagggccttccaaaggggtttcagttctggactt	2196
Db	961	CTCCCCAGTCTTAGGGCTGCCTGACTGAGGCGCTTCCAAGGGGGTTTCAGCTGEGACTT	1020
Qy	2197	atacagggagccagaaggtctccatgcactggaatgcggggactctgcaggttggaattac	2256
Db	1021	ATACAGGAGGCCAAGAGGCTCCATGCACTGGAAATGCGGGGACTCTGCAGGTGGATTAC	1080
Qy	2257	ccaggtccaggggttaacactagctcctagttagacacacacctagagaaggggttttgg	2316
Db	1081	CCAGGCTACAGGGTTAACAGCTAGCTTCTTAGTTGAGACACACCTTAGAGAAGGGTTTTGG	1140
Qy	2317	gagctgtaataaactcagtcacctgggtttcccatctcttaagcccttaacctgcagcttcg	2376
Db	1141	GAGCTGAATAAATCAGTCACCTGGTTTCCCATCTCTAAGCCCCCTTAACCTGCAGCTTCG	1200
Qy	2377	tttaatgtagctcttgatgggagttcttaggatgaaacactcctccatgggatttgaac	2436
Db	1201	TTTAATGTAGCTCTTCATGGGAGTTTCTTAGATCAAACTCTCTCATGGGATTTCAAC	1260

Qy	2437	atag--actattttagggagagtcctaggggcaacacacagaacccaggtcccc	2439
Db	1261	ATATGAAGAAGTATTGTAGGGGAAGAGTCCTGAGGGGCAACACAAGAACCAGTCCCC	1320
Qy	2495	tcagccacagcactcttttgcgtgaccaccccccttaccttttaccagatgtg	2554
Db	1321	TCAGCCACAGCACTGTCTTTTGCCTGATCCACCCCTCTTACCTTTATCAGATGTG	1380
Qy	2555	gcctgttgcttcctctgttgccatcacagacacagcagcatttaataatttaattt	2614
Db	1381	GCCGTGTGGTCCCTCTGTTGCCATCACAGACACAGAGCATTTAAATATTTAACTTATT	1440
Qy	2615	atttaacaaagtagaagggaatccattgctagcttttctgtgttggtgtctaaatttgg	2674
Db	1441	ATTTTAACAAAAGTAGAAGGAATCCATGTGCTAGCTTTTCTGTGTGGTGCTTAATATTGG	1500
Qy	2675	gtaggggtggggatcccccaacaatcaggtccccctgagatgctggtcattgggctgatca	2734
Db	1501	GTAGGGTGGGGATCCCCAACATCAGGTCCCCCTGAGATAGCTGTCATTGGGCTGATCA	1560
Qy	2735	tgcaggaattcttcttctggtgctggtcccccccaaaatgcctaacccaggaacttgg	2794
Db	1561	TGCGCAGAAATCTCTCTCTCGTGGGTCTGGCCCCCAAAATGCCATAACCCAGGACCTTGG	1620
Qy	2795	aaattctactcatcccaaatgataaattcgaatgctgttacccaaggttaggggtgtgaa	2854
Db	1621	AAATCTACTCATCCCAATGATATTCCAATATGCTGTACCCRAGGTTAGGGTCTTGAA	1680
Qy	2855	ggaaggtagaggtgggggttcaggctctcaaggcttcccttaacacacccctctctcttg	2914
Db	1681	GGAAGGTAGAGGTTGGGGCTTCAGGTCTCAACGGGTCTCCCTAAACACCCCTCTTCTCTTG	1740
Qy	2915	gccagcctggttcccccacttcacccctctactctctctagactgggctgatga	2974
Db	1741	GCCCAGGCTGGTTCGCCCACTTCCACTCCCTCTACTCTCTCTAGGACTGGGCTGATGA	1800
Qy	2975	aggcactgcccaaaatttccctaccccccaacttccctacccccacttccccacca	3034
Db	1801	AGGCACCTGCCAAAATTTCCCTACCCCAACTTTCCCTCCTCCCTTTCGCCACCA	1860
Qy	3035	gctccacaacccctgtttgagctactgcaggaccagaagcacaaagtgcggtttcccaag	3094
Db	1861	GCTCCACAACCCGTGTGTGAGCTACTTGCAGGACACAGAAGTCGGGTTCCTCCAG	1920
Qy	3095	ccttgtccatctcagccccagagtatctgtgcttggggaattctcacacagaaactc	3154
Db	1921	CCTTTGTCCATCTCAGCCCCCAGAGTATATCTGTGCTTGGGGGAATCTCACACAGAACTC	1980
Qy	3155	aggagcacccctcctgcagctaaaggaggtcttatctctcagggggggtttaagtgcgc	3214
Db	1981	AGGAGCACCCCTCGCTGAGCTAAGGGAGGCTCTTATCTCTCAGGGGGGGTTTAAGTCGGC	2040
Qy	3215	tttgcataatgctgctctatttatttagcgggggaattttatctctgaagtgaqca	3274
Db	2041	TTTGCAATATGTCGCTTATTATTATTACGGGGGTGAATATTTTATCTGTAACTGATGAGCA	2100
Qy	3275	atcagagataatgttttagtgacaaaaattaaaggctttcttatatgttta	3326
Db	2101	ATCAGAGTAAATGTGTATGGTCACAAAATTAAGGCTTCTCTATATGCTTTA	2152

Search completed: July 12, 2002, 00:10:48
Job time: 7187 sec

QY 2229 gaatgcgggactctgcaggtgattacccaggctcagggttaacagctagctcctcagt 2288
DB 1801 gaatgcgggactctgcaggtgattacccaggctcagggttaacagctagctcctcagt 1860
QY 2289 tgagacacactagagaaggggttttggagctgaataaactcagtcacctgggttcccca 2348
DB 1861 tgagacacactagagaaggggttttggagctgaataaactcagtcacctgggttcccca 1920
QY 2349 tctctagcccttaactgcagctgctgtttaaagttagctcttgcatgggagttctcagg 2408
DB 1921 tctctagcccttaactgcagctgctgtttaaagttagctcttgcatgggagttctcagg 1980
QY 2409 atgaacactctccatggattgaacatatg--acttatttagggaggaagagctcctg 2466
DB 1981 atgaacactctccatggattgaacatatg--acttatttagggaggaagagctcctg 2040
QY 2467 aggggcaacacacagaacacagggtccctcagccacagcagctctcttttgcgtgaccca 2526
DB 2041 aggggcaacacacagaacacagggtccctcagccacagcagctctcttttgcgtgaccca 2100
QY 2527 cccctcttaccctttatcaggatggtggcctgttggctctcttctgttgcacacagaga 2160
DB 2101 cccctcttaccctttatcaggatggtggcctgttggctctcttctgttgcacacagaga 2160
QY 2587 cacaggcatttaataatttaacttatatttaacaaagtagaaggaatccattgctag 2646
DB 2161 cacaggcatttaataatttaacttatatttaacaaagtagaaggaatccattgctag 2220
QY 2647 ctcttctgtgtgtgtctataatttgggttaggtggggatcccccacacatcagggtccc 2706
DB 2221 ctcttctgtgtgtgtctataatttgggttaggtggggatcccccacacatcagggtccc 2280
QY 2707 ctgagatagctggttcattgggtgctgattcccggaattctctctctcctgggtgctggcc 2766
DB 2281 ctgagatagctggttcattgggtgctgattcccggaattctctctcctgggtgctggcc 2340
QY 2767 ccccaaatgcttaaccagagacctggaaattctactcattcccaaatgataattccaaa 2826
DB 2341 ccccaaatgcttaaccagagacctggaaattctactcattcccaaatgataattccaaa 2400
QY 2827 tgcgtttaccacaaaggttaggtgttgaaggagtagaggtggtggttcagggtctcaac 2886
DB 2401 tgcgtttaccacaaaggttaggtgttgaaggagtagaggtggtggttcagggtctcaac 2460
QY 2887 ggttccttaaccacccctctctctgtgcccagcctgttccccccacttccactcccc 2946
DB 2461 ggttccttaaccacccctctctctgtgcccagcctgttccccccacttccactcccc 2520
QY 2947 tctactctctagactgggtgctgatgaaggcactgcccacaaatttccctaccctccaac 3006
DB 2521 tctactctctagactgggtgctgatgaaggcactgcccacaaatttccctaccctccaac 2580
QY 3007 ttcccttaccaccccaactttcccccacagctcccaacccctgtttggagctactgcagga 3066
DB 2581 ttcccttaccaccccaactttcccccacagctcccaacccctgtttggagctactgcagga 2640
QY 3067 ccagaagcacaaagtgcggtttcccaagcctttgtccatctcagccccccagagtattct 3126
DB 2641 ccagaagcacaaagtgcggtttcccaagcctttgtccatctcagccccccagagtattct 2700
QY 3127 gtgcttgggggaattctcacagaactcaggagcacccccctgctcagctaaaggaggtc 3186
DB 2701 gtgcttgggggaattctcacagaactcaggagcacccccctgctcagctaaaggaggtc 2760
QY 3187 ttatctcaggggggggtttaagtgcggtttgcaataatgctgtcttatttatttagogg 3246
DB 2761 ttatctcaggggggggtttaagtgcggtttgcaataatgctgtcttatttatttagogg 2820
QY 3247 ggtgaatttttactgtaagtgcagcaatcagagtagataatgtttatgtgtacaaaatta 3306
DB 2821 ggtgaatttttactgtaagtgcagcaatcagagtagataatgtttatgtgtgtacaaaatta 2880

QY 3307 aagcctttcttatatgttttaaaa 3330
DB 2881 aagcctttcttatatgttttaaaa 2904

RESULT 15

AAS64038

ID AAS64038 standard; cDNA; 4894 BP.

XX AAS64038;

XX AC AAS64038;

XX DT 29-JAN-2002 (first entry)

XX DE Human prosate cDNA P553S splice variant #1.

XX KW Human; prostate cancer; ss; cytostatic; immunostimulant; tumour.

XX OS Homo sapiens.

XX PN WO200173032-A2.

XX XX 04-OCT-2001.

XX XX 27-MAR-2001; 2001WO-US09919.

XX PR 27-MAR-2000; 2000US-0536857.

XX PR 09-MAY-2000; 2000US-0568100.

XX PR 12-MAY-2000; 2000US-0570737.

XX PR 13-JUN-2000; 2000US-0593793.

XX PR 27-JUN-2000; 2000US-0605783.

XX PR 10-AUG-2000; 2000US-0636215.

XX PR 29-AUG-2000; 2000US-0651236.

XX PR 06-SEP-2000; 2000US-0657279.

XX PR 02-OCT-2000; 2000US-0679426.

XX PR 10-OCT-2000; 2000US-0685166.

XX PA (CORI-) CORIXA CORP.

XX PI Xu J, Dillon DC, Mitcham JL, Harlocker SL, Jiang Y, Kalos MD;

XX PI Fanger GR, Retter MW, Stolk JA, Day CH, Vedvick TS, Carter D;

XX PI Li SX, Wang A, Skeiky YAW, Hepler WT, Henderson RA;

XX DR WPI; 2001-639232/73.

XX DR N-PSDB; AAU69874, AAU69875.

XX XX New human prostate-specific polypeptides and polynucleotides useful for

XX PT the diagnosis and treatment of cancer, especially prostate cancer -

XX PS Claim 1; Page 480-482; 579pp; English.

XX CC The invention relates to isolated prostate-specific

XX CC polynucleotides, polypeptides, fusion proteins of the polypeptides,

XX CC antibodies raised against the polypeptides (or antigenic epitopes

XX CC derived from them) and antigen-presenting cells expressing the

XX CC polypeptides. The antibodies are useful for detecting the presence of

XX CC cancer, especially prostate cancer. The polypeptides, polynucleotides and

XX CC the antigen-presenting cells are useful for stimulating and/or expanding

XX CC T cells specific for a tumour protein, and for inhibiting the development

XX CC of cancer especially prostate cancer. Compositions comprising the

XX CC polynucleotide and/or polypeptide are useful for stimulating an immune

XX CC response, and for treating cancer. The oligonucleotide is useful for

XX CC detecting cancer. The present sequence is a prostate specific

XX CC polynucleotide of the invention.

XX XX Sequence 4894 BP; 928 A; 1448 C; 1354 G; 1163 T; 1 other;

Query Match 62.8%; Score 2142.8; DB 22; Length 4894;

Best Local Similarity 80.1%; Pred. No. 0;

Matches 2872; Conservative 1; Mismatches 3; Indels 708; Gaps 2;

QY 455 ggcattggtccagtgctggcctgtgtgtcccgctctagctcagcagtgaccac 514
|||||

PT diagnosing, monitoring and treating prostate cancer in a patient and
PT for use in vaccines -

PS Claim 1; Page 459-460; 543pp; English.

The present invention describes polynucleotide sequences (I) which encode prostate-specific proteins (II). (I) and (II) have cytostatic activity, and can be used in vaccine production and gene therapy. (I), (II), antibodies to (II), fusion proteins comprising (II), and isolated T cells prepared using (I) or (II) are used treat cancer in a patient. (I) and the antibodies are also used in the detection of cancer in a patient. The cancer that is diagnosed or treated is particularly prostate cancer. (I) and (II) can be used in vaccines. The antibodies or (I) can be used for monitoring the progression of cancer in a patient. (I) and (II) can also be used to improve diagnostic and therapeutic methods for prostate cancer. They can indicate the level of metastasis as well as the prostate volume. AAH93357 to AAH93944 and AA01115 to AA01318 represent polynucleotide and amino acid sequences used in the exemplification of the present invention.

XX
SQ
Sequence 2904 BP; 542 A; 875 C; 773 G; 714 T; 0 other;

Query Match	64.4%	Score 2196.4;	DB 22;	Length 2904;
Best Local Similarity	88.2%	Pred. No. 0;		
Matches 2560:	Conservative	0: Mismatches	1: Indels	343: Gaps

Qy	770	gtctatgcttcatgatcatcagttcttgggggctgctgggctaccctccctgctgctgcaattgac	829
Db	1	gtctatgcttcatgatcatcagttcttgggggctgctgggctaccctccctgctgctgcaattgac	60
Qy	830	tgggaacacagtccttgcctgcctccctacctcctgagccaccagaggaagtgcctctttggcctg	889
Db	61	tgggaacacagtccttgcctgcctccctacctcctgagccaccagaggaagtgcctctttggcctg	120
Qy	890	ctcaccctcatcttctctcaccctgctgtagcagccacactgctgggtgctgagaggagcagcg	949
Db	121	ctcaccctcatcttctctcaccctgctgtagcagccacactgctgggtgctgagaggagcagcg	180
Qy	950	ctggggcccaaccagccagccagagaaggctgtgcggccctcctctgtgcccacctgctgt	1009
Db	181	ctggggcccaaccagccagccagagaaggctgtgcggccctcctctgtgcccacctgctgt	240
Qy	1010	ccatgcccggcccgcttggctttccggaaacctgggcccctgcttcccgcgctgcacacg	1069
Db	241	ccatgcccggcccgcttggctttccggaaacctgggcccctgcttcccgcgctgcacacg	300
Qy	1070	ctgtgctgcgcgatgcccgcacacctgcgcgggctcttcgtgctgagctgtgacgtcg	1129
Db	301	ctgtgctgcgcgatgcccgcacacctgcgcgggctcttcgtgctgagctgtgacgtcg	360
Qy	1130	atggcactcatgaccttcacgctgttttacacggatttctgggcgaggggctgtaccag	1189
Db	361	atggcactcatgaccttcacgctgttttacacggatttctgggcgaggggctgtaccag	420
Qy	1190	ggcgtgccagagctgagccgggacacgagggcccggagacactatgatga-	1240
Db	421	ggcgtgccagagctgagccgggacacgagggcccggagacactatgatgaaggaggcct	480
Qy	1241	-----	1240
Db	481	ctggctgctctaggagtctgatcagagtcgttgcgccagtttgacagaaggaaagcgga	540
Qy	1241	-----	1240
Db	541	gcttattcaagctcagaggagtgaggagttaaagctggatttcagatctgcctgggt	600
Qy	1241	-----	1240
Db	601	ccagccgcagtgctgctctgtctcccccaacgactttccaataatctccacagcgctt	660
Qy	1241	-----	1240

Db	661	caagctcagggcgtctctagaagcgtcttgaagcctatggccagctgtcttttgtgttccctc	720
Qy	1241	-----	1240
Db	721	tcaccgcgctgtctcaccagctgagactccacgaggaaaccttcagactaccttctctgccc	780
Qy	1241	-----ggcgttcggatgggcagcctcgggctgt	1268
Db	781	ttcagcaaggcgttgccacattctctgaggcgttcggatgggcagcctcgggctgt	840
Qy	1269	tctcgagtgcgcacatctccctgttctctcttggtcatggaccgctcgttcgacgat	1328
Db	841	tctcgagtgcgcacatctccctgttctctcttggtcatggaccgctcgttcgacgat	900
Qy	1329	tcggcactcagcagtcctatttggccagctgtggcagctttccctgttgctgcgcggtgccca	1388
Db	901	tcggcactcagcagtcctatttggccagctgtggcagctttccctgttgctgcgcggtgccca	960
Qy	1389	catgcgtctccacagctgtggccgttggtgacagcttcagccgcctcaccgggttcacct	1448
Db	961	catgcgtctccacagctgtggccgttggtgacagcttcagccgcctcaccgggttcacct	1020
Qy	1449	tctcagcctcgagatccttgcctcacactggcctcctctacaccgggagaaagcagg	1508
Db	1021	tctcagcctcgagatccttgcctcacactggcctcctctacaccgggagaaagcagg	1080
Qy	1509	tgttcctgccaaataccagaggacactggagctgtcagtcagtcagtcagtcagctgatga	1568
Db	1081	tgttcctgccaaataccagaggacactggagctgtcagtcagtcagtcagtcagctgatga	1140
Qy	1569	ccagcttctgcaggccctaagctggagctcccttccctaaatggacacgtgggtgtctg	1628
Db	1141	ccagcttctgcaggccctaagctggagctcccttccctaaatggacacgtgggtgtctg	1200
Qy	1629	gaggcagtgccctgtcccacactccacccgactcgcgggctctgcctgtgcctgtgatct	1688
Db	1201	gaggcagtgccctgtcccacactccacccgactcgcgggctctgcctgtgcctgtgatct	1260
Qy	1689	ccgtacagctgtgtgtgggtgagccacccagagccaggggtgttccgggcccggggcact	1748
Db	1261	ccgtacagctgtgtgtgggtgagccacccagagccaggggtgttccgggcccggggcact	1320
Qy	1749	gcttgacctgcacatccttgatgtgccttctgtctccaggttgccccactccctgt	1808
Db	1321	gcttgacctgcacatccttgatgtgccttctgtctccaggttgccccactccctgt	1380
Qy	1809	ttatgggtccattgtccagctcagccagctgtgcactgcctataggtgtctgcgcag	1868
Db	1381	ttatgggtccattgtccagctcagccagctgtgcactgcctataggtgtctgcgcag	1440
Qy	1869	gcttgggtctctgttcgcatttacttgtctacacaggttagttatggacaagagcacttg	1928
Db	1441	gcttgggtctctgttcgcatttacttgtctacacaggttagttatggacaagagcacttg	1500
Qy	1929	ccaaatactcagcgtgaaaaactccagcacattgggttgagggcctgcctcactgggt	1988
Db	1501	ccaaatactcagcgtgaaaaactccagcacattgggttgagggcctgcctcactgggt	1560
Qy	1989	cccagctccccgcctctgttagccccatggggtgcgcgggctcctgacttctgttg	2048
Db	1561	cccagctccccgcctctgttagccccatggggtgcgcgggctcctgacttctgttg	1620
Qy	2049	ctgccaaagtaatggctctctgtgcacacctgtcgtcgtgaggtgcgtagctgcaca	2108
Db	1621	ctgccaaagtaatggctctctgtgcacacctgtcgtcgtgaggtgcgtagctgcaca	1680
Qy	2109	gctgggggctcggggcgtccctctcctctcccagctctcagggtcgtcctgactggagg	2168
Db	1681	gctgggggctcggggcgtccctctcctctcccagctctcagggtcgtcctgactggagg	1740
Qy	2169	ccttccaaaggggtttcagtcctggaattatacagggaggccagaaggctccatgcactg	2228
Db	1741	ccttccaaaggggtttcagtcctggaattatacagggaggccagaaggctcctatgcactg	1800

QY	1689	cqftacgtgtggtggtgagcccaacagcgccaggtgtgtccgggcccggggcgatct	1748
Db	1261	ccgtacgtgtggtggtgagcccaacagcgccaggtgtgtccgggcccggggcgatct	1320
QY	1749	gcttgacactgccatcctgtagtgccttcgtgtccagggtggcccacatccctgt	1808
Db	1321	gcttgacactgccatcctgtagtgccttcgtgtccagggtggcccacatccctgt	1380
QY	1809	ttatgggtcccatgtccagctccagcagctgtccactgcctataatgtgtctgcgcgag	1868
Db	1381	ttatgggtcccatgtccagctccagcagctgtccactgcctataatgtgtctgcgcgag	1440
QY	1869	gcttggtgtgtgcccatttactttgtacacaggtagtattttgacaagagcagacttgg	1928
Db	1441	gcttggtgtgtgcccatttactttgtacacaggtagtattttgacaagagcagacttgg	1500
QY	1929	ccaaatactcagctagaaaaacttcagcacatcgggtgtgagggcctgctcactcgggt	1988
Db	1501	ccaaatactcagctagaaaaacttcagcacatcgggtgtgagggcctgctcactcgggt	1560
QY	1989	ccagctccccgctcctgttagcccatcggggctgcgggctgtccagactttctgttg	2048
Db	1561	ccagctccccgctcctgttagcccatcggggctgcgggctgtccagactttctgttg	1620
QY	2049	ctgccaaagttaatgtggtctctgtcgcacctgtgctgtaggtgtgcgtactgcaca	2108
Db	1621	ctgccaaagttaatgtggtctctgtcgcacctgtgctgtaggtgtgcgtactgcaca	1680
QY	2109	gctgggggtgtgggggtccctctctctccacgtctcttagggctgcctgactcggag	2168
Db	1681	gctgggggtgtgggggtccctctctccacgtctcttagggctgcctgactcggag	1740
QY	2169	ccttccaaaggggtttcagctggacttatacaggagggccagaaagggtcccatgcaactg	2228
Db	1741	ccttccaaaggggtttcagctggacttatacaggagggccagaaagggtcccatgcaactg	1800
QY	2229	gaatcggggactctgcaggtggattaccaggctcagggttaacagctagcctcctagt	2288
Db	1801	gaatcggggactctgcaggtggattaccaggctcagggttaacagctagcctcctagt	1860
QY	2289	tgagacacacctagagaagggtttttgggagctgaataaactcagtcacactggtttccca	2348
Db	1861	tgagacacacctagagaagggtttttgggagctgaataaactcagtcacactggtttccca	1920
QY	2349	tccttaagcccttaacctgcagcttcgtttaatgtagctcttgcatcggaggtttctagg	2408
Db	1921	tccttaagcccttaacctgcagcttcgtttaatgtagctcttgcatcggaggtttctagg	1980
QY	2409	atgaacacactctccatggatttgaacatatg--acttattttaggggaaagactcctg	2466
Db	1981	atgaacacactctccatggatttgaacatatgaaagtattttaggggaaagactcctg	2040
QY	2467	aggggcaacacacagaacagggtccctcagcccaacagcaactgtcttttgcgtatcca	2526
Db	2041	aggggcaacacacagaacagggtccctcagcccaacagcaactgtcttttgcgtatcca	2100
QY	2527	ccccctcttaacctttatcaggatgtggcctgttggctctgttgcctatcacacagaga	2586
Db	2101	ccccctcttaacctttatcaggatgtggcctgttggctctgttgcctatcacacagaga	2160
QY	2587	cacaggcatttaaatttaactatttatttaacaaagttagaagggaatccattgctag	2646
Db	2161	cacaggcatttaaatttaactatttatttaacaaagttagaagggaatccattgctag	2220
QY	2647	cttttctgtgtggtgtctaaatatttgggttaggtgtggggggtatccccacaactcaggtccc	2706
Db	2221	cttttctgtgtggtgtctaaatatttgggttaggtgtggggggtatccccacaactcaggtccc	2280
QY	2707	ctgagatagctgtgcatgtgggtgtatcattgtccagaaatctcttctcctcgtgggtctggcc	2766
Db	2281	ctgagatagctgtgcatgtgggtgtatcattgtccagaaatctcttctcctcgtgggtctggcc	2340

QY	2767	ccccaaatgcctaacccaggacctcttgaaattctactatctccaaatgataattccaaa	28262
Db	2341	ccccaaatgcctaacccaggacctcttgaaattctactatctccaaatgataattccaaa	24000
QY	2827	tgctgttacccaagtttaggtgttggaaggaagtagaggttggggcttcaggtctccaac	28886
Db	2401	tgctgttacccaagtttaggtgttggaaggaagtagaggttggggcttcaggtctccaac	24660
QY	2887	ggcttccttaacccaccctctctctgtggcccgagccttggttccccccaacttccactcccc	29466
Db	2461	ggcttccttaacccaccctctctctgtggcccgagccttggttccccccaacttccactcccc	25220
QY	2947	tctactctcttaggaactgggctgatgaagcactgccccaaatttccccctacccccacac	30066
Db	2521	tctactctcttaggaactgggctgatgaagcactgccccaaatttccccctacccccacac	25880
QY	3007	tttccctacccccacaacttccccaccagctcccaaacctgtgttgagctactgcagga	30666
Db	2581	tttccctacccccacaacttccccaccagctcccaaacctgtgttgagctactgcagga	26460
QY	3067	ccagaagcacaaagtgcgggtttcccaagcctttgtccatctcagcccccaagatatct	31266
Db	2641	ccagaagcacaaagtgcgggtttcccaagcctttgtccatctcagcccccaagatatct	27000
QY	3127	gtgcttggggaatctcacacagaaactcaggagcaccctgcctgagctaaaggaggtc	31866
Db	2701	gtgcttggggaatctcacacagaaactcaggagcaccctgcctgagctaaaggaggtc	27660
QY	3187	ttatctctcagggggggtttaagtgcctttgcataaatgtcgtctatttatttagcgg	32466
Db	2761	ttatctctcagggggggtttaagtgcctttgcataaatgtcgtctatttatttagcgg	28260
QY	3247	ggtgaataattttactactgaactgaagcgaactcagagataaagtgttggtgacaaaatta	33066
Db	2821	ggtgaataattttactactgaagcgaactcagagataaagtgttggtgacaaaatta	28880
QY	3307	aaggctttcttatgtgtttaaaaa	3330
Db	2881	aaggctttcttatgtgtttaaaaa	2904
RESULT 14			
AAH93867			
ID	AAH93867 standard; cDNA; 2904 BP.		
XX	AAH93867;		
XX	04-OCT-2001 (first entry)		
XX	P553S cDNA splice variant P553S-12.		
XX	Human; prostate cancer; prostate-specific; diagnosis; vaccine; cytostatic; gene therapy; metastasis; ss.		
XX	Homo sapiens.		
XX	WO200151633-A2.		
XX	19-JUL-2001.		
XX	16-JAN-2001; 2001WO-US01574.		
XX	14-JAN-2000; 2000US-0483672.		
XX	(CORI-) CORIXA CORP.		
XX	Xu J, Dillon DC, Mitcham JL, Harlocker SL, Jiang Y, Reed SG;		
PI	Kalos MD, Fanger GR, Day CH, Retter MW, Stolk JA, Skeiky YAW;		
PI	Wang A, Meagher MJ;		
XX	WPI; 2001-425873/45.		
XX	New polynucleotide encoding a prostate-specific protein; for		

Db 2521 ccaattgtccagtcagccagctgtcactgcctatatgtgtctgcgcagagcctgggtc 2580
 QY tgggtgcacattacttctgtctacacaggtagttatttgacaaagagcagcttgccaaataact 1937
 Db 2581 tgggtgcacattacttctgtctacacaggtagttatttgacaaagagcagcttgccaaataact 2640
 QY 1938 cagcgtagaaaactccagacacattggggtgaggggctcctcactgggtcccgagctcc 1937
 Db 2641 cagcgtagaaaactccagacacattggggtgaggggctcctcactgggtcccgagctcc 2700
 QY 1998 ccgctccctgttagccccctgggggtgcggggctgcggcgccaggttctgtgtctgccaaaag 2057
 Db 2701 ccgctccctgttagccccctgggggtgcggggctgcggcgccaggttctgtgtctgccaaaag 2760
 QY 2058 taatgtgctctctgtctgcacccctgtcctgtcaggtgcagctgcacagctgggggc 2117
 Db 2761 taatgtgctctctgtctgcacccctgtcctgtcaggtgcagctgcacagctgggggc 2820
 QY 2118 tggggcgtccctctcctctctccccagctctcaggtgcctgaggtgcctgagggccttccaag 2177
 Db 2821 tggggcgtccctctcctctctccccagctctcaggtgcctgaggtgcctgagggccttccaag 2880
 QY 2178 ggggttccagctctgacttatacaggggagccagaaaggccatgcactggaatgcggg 2237
 Db 2881 ggggttccagctctgacttatacaggggagccagaaaggccatgcactggaatgcggg 2940
 QY 2238 gactctcaggtggattaccaggtcaggttaacagctagctcctcagttgagacaca 2297
 Db 2941 gactctcaggtggattaccaggtcaggttaacagctagctcctcagttgagacaca 3000
 QY 2298 cctagagaagggtttttggagctggaataaactcagtcacctgggtttcccatctcttaagc 2357
 Db 3001 cctagagaagggtttttggagctggaataaactcagtcacctgggtttcccatctcttaagc 3060
 QY 2358 ccttaacctgcagctcgtttaagttagctcttcagctgcagggagttcttagatgaaacac 2417
 Db 3061 ccttaacctgcagctcgtttaagttagctcttcagctgcagggagttcttagatgaaacac 3120
 QY 2418 tctccatgggattggaacatag--actattttaggggaagagctcctgaggggcaac 2475
 Db 3121 tctccatgggattggaacatagaaagtattttaggggaagagctcctgaggggcaac 3180
 QY 2476 acaagaacacaggtccctcagccacagcagctgtcttttctgtgatcccccctct 2535
 Db 3181 acaagaacacaggtccctcagccacagcagctgtcttttctgtgatcccccctct 3240
 QY 2536 taccttttatcaggtatggcctgtgtgtctcttctgttgccatcacagacacagcgc 2595
 Db 3241 taccttttatcaggtatg--gcctgtgtcctctctgttgccatcacagacacagcgc 3299
 QY 2596 ttaaatatttaactattattatttaacaaagtagaagggaatacctattgttagcttttctgt 2655
 Db 3300 ttaaatatttaactattattatttaacaaagtagaagggaatacctattgttagcttttctgt 3359
 QY 2656 gtgtgtcttaattttgttaggtgaggtgaggtcccaacatcaggtccctcctgagatag 2715
 Db 3360 gtgtgtcttaattttgttaggtgaggtgaggtcccaacatcaggtccctcctgagatag 3419
 QY 2716 ctgtgtcattgggctgatcattgcccagaatcttctctcctgggtcctggcccccccaaat 2775
 Db 3420 ctgtgtcattgggctgatcattgcccagaatcttctctcctgggtcctggcccccccaaat 3479
 QY 2776 gcttaaccagagaccttgaaattctactcattcccaaatgataattccaaatgctgttac 2835
 Db 3480 gcttaaccagagaccttgaaattctactcattcccaaatgataattccaaatgctgttac 3539
 QY 2836 ccaaggttaggtgttgaaagaggtagaggtgaggtgaggttccaggtctcaacggttccct 2895
 Db 3540 ccaaggttaggtgttgaaagaggtagaggtgaggtgaggttccaggtctcaacggttccct 3599
 QY 2896 aaccacccctctctctgtgcccagcctgggttcccccaacttccactccctctactctc 2955

Db 3600 aaccacccctctctctgttggccagcctggttccccccacttccactccctctactctc 3659
 QY 2956 tctaggactgggtgatgaaggcactgcccaaaatttccctcaccctcccaactttccctc 3015
 Db 3660 tctaggactgggtgatgaaggcactgcccaaaatttccctcaccctcccaactttccctc 3719
 QY 3016 cccccaactttccccaccagctccacaaacccctgttggagctactgcaggaccagaagca 3075
 Db 3720 cccccaactttccccaccagctccacaaacccctgttggagctactgcaggaccagaagca 3779
 QY 3076 caaagtgcggtttcccaagcctttgtccatctcagccccccagagtatatctgtgctggg 3135
 Db 3780 caaagtgcggtttcccaagcctttgtccatctcagccccccagagtatatctgtgctggg 3839
 QY 3136 gaattcacacagaaactcaggagcaccctcctgagctaaaggaggtcttatctctc 3195
 Db 3840 gaattcacacagaaactcaggagcaccctcctgagctaaaggaggtcttatctctc 3899
 QY 3196 aggggggttttaagtcgctgttgcaataaagtgcgtctatttatttagcgggtgaatat 3255
 Db 3900 aggggggttttaagtcgctgttgcaataaagtgcgtctatttatttagcgggtgaatat 3959
 QY 3256 ttatatactgaagtgaagcaatcagagtgataatgttttatggtgacaaaattaaaggcttcc 3315
 Db 3960 ttatatactgaagtgaagcaatcagagtgataatgttttatggtgacaaaattaaaggcttcc 4019
 QY 3316 ttatatgttttaaaaa 3330
 Db 4020 ttatatgttttaaaaa 4034

RESULT 12

AAH93868
ID AAH93868 standard; cDNA; 4034 BP.

AC AAH93868;
 XX
 DT 04-OCT-2001 (first entry)
 XX P553S cDNA splice variant P553S-10.
 DE Human; prostate cancer; prostate-specific; diagnosis; vaccine;
 KW cytotstatic; gene therapy; metastasis; ss.
 OS Homo sapiens.
 XX
 PN W0200151633-A2.
 XX 19-JUL-2001.
 PD
 PF 16-JAN-2001; 2001WO-US01574.
 XX
 PR 14-JAN-2000; 2000US-0483672.
 XX
 PA (CORI-) CORIXA CORP.

XX Xu J, Dillon DC, Mitcham JL, Harlocker SL, Jiang Y, Reed SG;
 PI Kalos MD, Fanger GR, Day CH, Retter MW, Stolk JA, Skeiky YAW;
 PI Wang A, Meagher MJ;
 XX
 DR WPI; 2001-425873/45.
 XX

PT New polynucleotide encoding a prostate-specific protein, for
 PT diagnosing, monitoring and treating prostate cancer in a patient and
 PT for use in vaccines -
 XX
 XX
 PS Claim 1; Page 460-461; 543pp; English.

XX The present invention describes polynucleotide sequences (I) which encode
 CC prostate-specific proteins (II). (I) and (II) have cytostatic activity,
 CC and can be used in vaccine production and gene therapy. (I), (II),
 CC antibodies to (II), fusion proteins comprising (II), and isolated
 CC T cells prepared using (I) or (II) are used treat cancer in a patient.

||||| 301 tgagccgctgtcggcaccggaagccagctcttgctggccaacctgctaaccctttg 360
Qy 363 gctcggagggtgtgtttggccgaggaatcaacctatgtgcgcctctctgctctgtaagtgg 422
Db 361 gctcggagggtgtgtttggccgaggaatcaacctatgtgcgcctctctgctctgtaagtgg 420
Qy 423 ggttagaggaagtctcatgacatgctgctggcattgtccagtgctggcctggtct 482
Db 421 gggtaggggaagtctcatgacatgctgctggcattgtggcattgtggcctggtgctct 480
Qy 483 ggtcccgctcctaggctcagcagtgacacactggcgtgacgctatggtgcgcgcgcgcgc 542
Db 481 ggtcccgctcctaggctcagcagtgacacactggcgtgacgctatggtgcgcgcgcgcgc 540
Qy 543 ccttcactgggcaactgtccttgggcaactcctgtgagccctttctcatcccaaggccg 602
Db 541 ccttcactgggcaactgtccttgggcaactcctgtgagccctttctcatcccaaggccg 600
Qy 603 gctggctagcagggtgctgtgcccggatccagggccctggagctggcactgctcatcc 662
Db 601 gctggctagcagggtgctgtgcccggatccagggccctggagctggcactgctcatcc 660
Qy 663 tggcgctggggctgctgggaactctgtggcagggtgtgcttcaactcctcagggccctgc 722
Db 661 tggcgctggggctgctgggaactctgtggcagggtgtgcttcaactcctcagggccctgc 720
Qy 723 tctctgacctctccgggaaccgggacacactgtccagggcctactgtctatgctctca 782
Db 721 tctctgacctctccgggaaccgggacacactgtccagggcctactgtctatgctctca 780
Qy 783 tgaatgctctggggctgctgggctacactcctgcctgcattgactgggacacacagtg 842
Db 781 tgaatgctctggggctgctgggctacactcctgcctgcattgactgggacacacagtg 840
Qy 843 cctcggccctactcctggcaccagagagtgctctttggcctgctcaccctcatct 902
Db 841 cctcggccctactcctggcaccagagagtgctctttggcctgctcaccctcatct 900
Qy 903 tctcactcgttagcagcaccactgctggtggctgaggagggcgctggggcccccacg 962
Db 901 tctcactcgttagcagcaccactgctggtggctgaggagggcgctggggcccccacg 960
Qy 963 agccagagaaggctgtcggccctcctgtgcgccactgctgtccatgcgcggccc 1022
Db 961 agccagagaaggctgtcggccctcctgtgcgccactgctgtccatgcgcggccc 1020
Qy 1023 gcttggcttccggaaactggcgccctgcttcccggctgcaccagctgtgctgcgcga 1082
Db 1021 gcttggcttccggaaactggcgccctgcttcccggctgcaccagctgtgctgcgcga 1080
Qy 1083 tgcgccgcaacctggccgctcttcgtgctgagctgagctgagtgatggcactcatga 1142
Db 1081 tgcgccgcaacctggccgctcttcgtggtgagctgagctgagtgatggcactcatga 1140
Qy 1143 ccttcacgctgttttacacgattctcgtggcgagggtgtaccagggcgtgccacag 1202
Db 1141 ccttcacgctgttttacacgattctcgtggcgagggtgtaccagggcgtgccacag 1200
Qy 1203 ctgagccgggacccagggccggagacactatgatgaaggcgttcgatgggacactgg 1262
Db 1201 ctgagccgggacccagggccggagacactatga tgaaggcgttcgatgggacactgg 1260
Qy 1263 ggtgttctcgtcagtgcccatctccctggttcttctcgtgtaagacccgctggtgc 1322
Db 1261 ggtgttctcgtcagtgcccatctccctggttcttctcgtgtaagacccgctggtgc 1320
Qy 1323 agcgattcggcactcagcagctctatttggccagtgctggcagcttccctgtgctgcg 1382
Db 1321 agcgattcggcactcagcagctctatttggccagtgctggcagcttccctgtgctgcg 1380
Qy 1383 gfgcacatgctgtccacagtgggcgtggtgacagcttcagccgctcaccgggt 1442
|||||

Db 1381 gtgccacatgctgtcccacagtggtggccgtgtgacagcttaagcgcgcctcaccgggt 1440
Qy 1443 tcacctctcagccctgcagatacctcctacacatggcctcctctaccaccggaga 1502
Db 1441 tcacctctcagccctgcagatacctcctacacatggcctcctctaccaccggaga 1500
Qy 1503 agcagggttctgtcccaataaccgaggggacactggaggtgctagcagtgagacagcc 1562
Db 1501 agcagggttctgtcccaataaccgaggggacactggaggtgctagcagtgagacagcc 1560
Qy 1563 tgatgacagcttctgtccagccctaaacctgagctccttcccttaataatgacacgtgg 1622
Db 1561 tgatgacagcttctgtccagggccctaaacctgagctccttcccttaataatgacacgtgg 1620
Qy 1623 gtgctgagcgagtgccctgtcccaacctccaccgcctctgtcggggcctctgctgtg 1682
Db 1621 gtgctgagcgagtgccctgtcccaacctccaccgcctctgtcggggcctctgctgtg 1680
Qy 1683 atgtctccgtacgtgtggtgggtgggtgagcccaaccagggaggttcggggccggg 1742
Db 1681 atgtctccgtacgtgtggtgggtgggtgagcccaaccagggaggttcggggccggg 1740
Qy 1743 gcatctgctggacctcgccatcctgtgtagtgcttctcctgtctccaggtggcccat 1802
Db 1741 gcatctgctggacctcgccatcctgtgtagtgcttctcctgtctccaggtggcccat 1800
Qy 1803 cctgttataggctccattgtccagctcagccagctctgtcactgctctatatgtctg 1862
Db 1801 cctgttataggctccattgtccagctcagccagctctgtcactgctctatatgtctg 1860
Qy 1863 ccgagggcctggctgtgctgctcatttacttctcacacaggtagttattgacaaagcg 1922
Db 1861 ccgagggcctggctgtgctgctcatttacttctcacacaggtagttattgacaaagcg 1920
Qy 1923 acttggccaaataactcagcgtagaaaaacttccaggacattgggggtggaggcctgctca 1982
Db 1921 acttggccaaataactcagcgtagaaaaacttccaggacattgggggtggaggcctgctca 1980
Qy 1983 ctgggtcccagctcccgcctcctgttagccccatggggctgcggggcgtggcccccagttt 2042
Db 1981 ctgggtcccagctcccgcctcctgttagccccatggggctgcggggcgtggcccccagttt 2040
Qy 2043 ctgtgtgctccaaagtaagtgtctctctgtcgcacccctgtctgctgtaggtgctgtagc 2102
Db 2041 ctgtgtgctccaaagtaagtgtctctctgtcgcacccctgtctgctgtaggtgctgtagc 2100
Qy 2103 tgacagctggggctggggcgtccctctctctctccacagctctctagggctgctgtagc 2162
Db 2101 tgacagctggggctggggcgtccctctctctctctctctctctctctctctctgtaggtgctgtagc 2160
Qy 2163 tggaggccttccaaaggggtttcagtgctggaacttatcacagggggcgcagaaaggcctccat 2222
Db 2161 tggaggccttccaaaggggtttcagtgctggaacttatcacagggggcgcagaaaggcctccat 2220
Qy 2223 gcactgaaatgcgggaactctgcagctggtattaccaggtctcaggggttaacagctagcct 2282
Db 2221 gcactgaaatgcggggactctgcagctggtattaccaggtctcaggggttaacagctagcct 2280
Qy 2283 cctagttgagacacacactagagaagggtttttgggagctgaataaactcagctcacttgg 2342
Db 2281 cctagttgagacacacactagagaagggtttttgggagctgaataaactcagctcacttgg 2340
Qy 2343 tcccatctctaaagcccttaacctgagctcggtttaaattagctcttgcattgaggaggt 2402
Db 2341 tcccatctctaaagcccttaacctgagctcggtttaaattagctcttgcattgaggaggt 2400
Qy 2403 tctaggtgaaacactcctcctcctgggatttgaacatatg--acttattttagggggaaga 2460
Db 2401 tctaggtgaaacactcctcctcctgggatttgaacatatgaaagtattttagggggaaga 2460
Qy 2461 gtcctgagggggaacacacacaaagaccagggtccctctcagcccaagcactgtcttttgc 2520
Db 2461 gtcctgagggggaacacacacaaagaccagggtccctctcagcccaagcactgtcttttgc 2520

Qy	2581	cagagacacaggcatttaaattatttaactttattttaa	caaaagtgagagggaatccat	2640
Db	2581	cagagacacaggcatttaaattatttaactttattttaa	caaaagtgagagggaatccat	2640
Qy	2641	tgtactgtttctgtgtgtctaaatatttgggtagggtg	gggggacccccacaataca	2700
Db	2641	tgtactgtttctgtgtgtgtctaaattttgggtagggt	gggggacccccacaataca	2700
Qy	2701	ggtccctcagatagctgtgtcattgggtcgatcatctg	ccagaatctttctctcctggggt	2760
Db	2701	ggtccctcagatagctgtgtcattgggtcgatcatctg	ccagaatctttctctcctggggt	2760
Qy	2761	ctggccccccaaaatgcttaaccccaggaccttgaaa	ttactcatcccaaatgataat	2820
Db	2761	ctggccccccaaaatgcttaaccccaggaccttgaaa	ttactcatcccaaatgataat	2820
Qy	2821	tcacaaatgctgttaccccaaggttaagggttgttga	aggaaaggttagaggtgttccttcagggt	2880
Db	2821	tcacaaatgctgttaccccaaggttaagggttgttga	aggaaaggttagaggtgttccttcagggt	2880
Qy	2881	ctcaacgggttcctcaaccacccctctctctgtgcc	agcctgtgttcccaccacttcca	2940
Db	2881	ctcaacgggttcctcaaccacccctctctctgtgcc	agcctgtgttcccaccacttcca	2940
Qy	2941	ctccctctactctctctaggactgggtgatgaaggc	actgtgccaaaattcccctacc	3000
Db	2941	ctccctctactctctctaggactgggtgatgaaggc	actgtgccaaaattcccctacc	3000
Qy	3001	cccaactttccctaccccccaactttcccaccagct	ctccacaacccctgtttggagctact	3060
Db	3001	cccaactttccctaccccccaactttcccaccagct	ctccacaacccctgtttggagctact	3060
Qy	3061	gcaggaccagaagcacaaagtgcgtttcccgaagct	tttcccatactcagccccccaggt	3120
Db	3061	gcaggaccagaagcacaaagtgcgtttcccgaagct	tttcccatactcagccccccaggt	3120
Qy	3121	atatctgtcttggggaatctcacagaaaactcagg	agcagccccctgcctgagctaaagg	3180
Db	3121	atatctgtcttggggaatctcacagaaaactcagg	agcagccccctgcctgagctaaagg	3180
Qy	3181	gaggcttatctctcagggggggtttaagtgcgtttg	caataatgcgtctctatttatt	3240
Db	3181	gaggcttatctctcagggggggtttaagtgcgtttg	caataatgcgtctctatttatt	3240
Qy	3241	tagcgggggtgaatattttatactgtaagtggcaat	cagatgataagtgtttatgtgaca	3300
Db	3241	tagcgggggtgaatattttatactgtaagtggcaat	cagatgataagtgtttatgtgaca	3300
Qy	3301	aaattaaaggcttcttcttatgtttcaaaaaaaa	aaaaaaaaaaaaaaaaaaaaaaaa	3360
Db	3301	aaattaaaggcttcttcttatgtttcaaaaaaaa	aaaaaaaaaaaaaaaaaaaaaaaa	3360
Qy	3361	aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa	aaaaaaaaaaaaaaaaaaaaaa	3410
Db	3361	aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa	aaaaaaaaaaaaaaaaaaaaaa	3410

RESULT 9

AAA06349	
ID	AAA06349 standard; cDNA; 3410 BP.
XX	
XX	AAA06349;
XX	
XX	13-JUN-2000 (first entry)
XX	
XX	Human immunogenic prostate tumour protein cDNA sequence SEQ ID NO:110.
DE	
XX	
KW	Human; prostate cancer; diagnosis; tumour; gene therapy; detection;
KW	immunogenic; cytostatic; vaccine; ss.
XX	
XX	Homo sapiens.
OS	
XX	

PN	WO200004149-A2.	
XX		
PD	27-JAN-2000.	
XX		
PF	14-JUL-1999; 99WO-US15838.	
XX		
PR	14-JUL-1998; 98US-0115453.	
PR	14-JUL-1998; 98US-0116134.	
PR	23-SEP-1998; 98US-0159812.	
PR	23-SEP-1998; 98US-0159822.	
PR	15-JAN-1999; 99US-0232149.	
PR	15-JAN-1999; 99US-0232880.	
PR	09-APR-1999; 99US-0288946.	
XX		
PA	(CORI-) CORIXA CORP.	
XX		
PI	Dillon DC, Harlocker SL, Yuqiu J, Xu J, Mitcham JL;	
XX		
DR	WPI; 2000-171268/15.	
XX		
PT	New polypeptide useful for treating and diagnosing prostate cancer	
PT	comprises an immunogenic portion of prostate tumor protein -	
XX		
PS	Claim 1; Page 135-136; 263pp; English.	
XX		
CC	The present invention describes isolated polypeptides, comprising an	
CC	immunogenic portion of a prostate tumour protein (pnp). The polypeptides	
CC	and polynucleotides encoding them have cytostatic activity and can be	
CC	used in vaccines and in gene therapy. The polypeptides and	
CC	polynucleotides encoding them, antigen presenting cells which express	
CC	the polypeptides, antibodies against the polypeptides and vaccines	
CC	comprising them can be used for inhibiting the development of prostate	
CC	cancer in a patient. The polypeptides can be used to generate antibodies	
CC	or anti-idiotypic antibodies for passive immuno therapy. A portion of	
CC	the polynucleotides encoding the polypeptides can be used as a probe or	
CC	to modulate the expression of the polypeptides. AAA06241 to AAA06691 and	
CC	AA82000 to AA92020 represent sequences used in the exemplification of	
CC	the present invention.	
XX		
SO	Sequence 3410 BP: 667 A; 1015 C; 945 G; 782 T; 1 other;	

[illegible]

|||||
Db 361 tggcctggaggtgtgtttggcgcagagcatcacctatgtgcgcctctgtgtggaagt 420
QY 421 gggggtagagagaagtattcatgaccattggtgtgtgggatttggtccagtgtggcctgggt 480
Db 421 gggggtagagagaagtattcatgaccattggtgtgtgggatttggtccagtgtggcctgggt 480
QY 481 ctgtgtcccgctcttagctcagcagctgaccactggcgtggagcgtatggcgcgcgcg 540
Db 481 ctgtgtcccgctcttagctcagcagctgaccactggcgtggagcgtatggcgcgcgcg 540
QY 541 gcccttcacttgggcaactgtctcttgggcaactctctgtgagcctcttcttcataccaaagggc 600
Db 541 gcccttcacttgggcaactgtctcttgggcaactctctgtgagcctcttcttcataccaaagggc 600
QY 601 cggctggttagcagggctgtgtgtcccgagatccacagcccctggagctggcactgctcat 660
Db 601 cggctggttagcagggctgtgtgtcccgagatccacagcccctggagctggcactgctcat 660
QY 661 cctggcggtgggctgtggacttctgtggcaggtgtgttctactccactggagggcct 720
Db 661 cctggcggtgggctgtggacttctgtggcaggtgtgttctactccactggagggcct 720
QY 721 gctctctgaactttccgggagaccgagaccactgtgcgcagggcctactctgtctatgctt 780
Db 721 gctctctgaactttccgggagaccgagaccactgtgcgcagggcctactctgtctatgctt 780
QY 781 catgatcagttctgggggctgtcctgggctacctcctcctgctccatgtactgggagacacag 840
Db 781 catgatcagttctgggggctgtcctgggctacctcctcctgctccatgtactgggagacacag 840
QY 841 tgccttggccccctacctggggacccccagagaggtgctctctttggcctgtcacccctcat 900
Db 841 tgccttggccccctacctggggacccccagagaggtgctctctttggcctgtcacccctcat 900
QY 901 ottcctcaactgcgtagcagccacactgctgtgtgtgtggtgagagagcagcgtggccccac 960
Db 901 attcctcaactgcgtagcagccacactgctgtgtgtgtggtgagagagcagcgtggccccac 960
QY 961 cgagccagcagaagggctgtgcggccccctcttgcgcccaactgctgtccatgccgggc 1020
Db 961 cgagccagcagaagggctgtgcggccccctcttgcgcccaactgctgtccatgccgggc 1020
QY 1021 cccgttggcttccggaaacctgggcgcctgtcttcccccggctgcaacagctgtgtcgcg 1080
Db 1021 cccgttggcttccggaaacctgggcgcctgtcttcccccggctgcaacagctgtgtcgcg 1080
QY 1081 catgccccgcacctgcgcgcgctctctgtgtgtgagctgtgagctggagtgcaactcat 1140
Db 1081 catgccccgcacctgcgcgcgctctctgtgtgtgagctgtgagctggagtgcaactcat 1140
QY 1141 gaccttcacgctgttttacacggatttctgtggcgaggggctgtaccagggcgtgcccag 1200
Db 1141 gaccttcacgctgttttacacggatttctgtggcgaggggctgtaccagggcgtgcccag 1200
QY 1201 agctgagccgggcaaccgagcccgagacactatgatgaagggcttcggatgggcagcct 1260
Db 1201 agctgagccgggcaaccgagcccgagacactatgatgaagggcttcggatgggcagcct 1260
QY 1261 ggggctgttccctcagtgcccatctccctggtcttctctgtgtcatggaccggcgtgggt 1320
Db 1261 ggggctgttccctcagtgcccatctccctggtcttctctgtgtcatggaccggcgtgggt 1320
QY 1321 gcagcgattcggcaactgcagcagctatttggccagtggtggcagcttccctgtggctgc 1380
Db 1321 gcagcgattcggcaactgcagcagctatttggccagtggtggcagcttccctgtggctgc 1380
QY 1381 cgggtgccacatgcctgttccccacagtggtggcgtggtgacagcttcagccgcctcacagg 1440
Db 1381 cgggtgccacatgcctgttccccacagtggtggcgtggtgacagcttcagccgcctcacagg 1440
QY 1441 gttcaactttcagccctgcagatcctcctcctacacactggcctccttaccaccggga 1500
|||||

Db 1441 gttcaactttcagccctgcagatcctgccttacacactggcctcctctaccaccaggga 1500
QY 1501 gaagcaggtgttctctgcccaataccagaggggacactggaggtgtgtagcagtgagacag 1560
Db 1501 gaagcaggtgttctctgcccaataccagaggggacactggaggtgtgtagcagtgagacag 1560
QY 1561 cctgtatgaccagtttctctgcagggccctaaagctggagctcccttccctaaatggacagt 1620
Db 1561 cctgtatgaccagtttctctgcagggccctaaagctggagctcccttccctaaatggacagt 1620
QY 1621 ggtgtgtgaagcagtggtgctccacactccaccgcgctctgcggggcctctgcctg 1680
Db 1621 ggtgtgtgaagcagtggtgctccacactccaccgcgctctgcggggcctctgcctg 1680
QY 1681 tgatgtctccgtacgtgtgtgtgggtgagccacacagagccaggtgtgtccgggcg 1740
Db 1681 tgatgtctccgtacgtgtgtgtgggtgagccacacagagccaggtgtgtccgggcg 1740
QY 1741 gggcatctgctggacactgcgcactcctgcacactccaccgcgctctgcggggcctctgcctg 1800
Db 1741 gggcatctgctggacactgcgcactcctgcacactccaccgcgctctgcggggcctctgcctg 1800
QY 1801 atccctgtttatgggtccattgtccagctcagccagctgtctcactgcctatatgtgtgc 1860
Db 1801 atccctgtttatgggtccattgtccagctcagccagctgtctcactgcctatatgtgtgc 1860
QY 1861 tgcgcagggcctgggtctgtgcccatttactttgtctacacaggtatgtattgacaagag 1920
Db 1861 tgcgcagggcctgggtctgtgcccatttactttgtctacacaggtatgtattgacaagag 1920
QY 1921 cgacttggccaaatactcagctagaaaaactccagcacattgggtggagggcctcctcct 1980
Db 1921 cgacttggccaaatactcagctagaaaaactccagcacattgggtggagggcctcctcct 1980
QY 1981 cactgggtccagctcccgctcctgttagcccatggggtccgggctcggcgccagt 2040
Db 1981 cactgggtccagctcccgctcctgttagcccatggggtcggcgccagt 2040
QY 2041 ttctgttgcgcacaaagtaattgtgtgtctgtgtgcacccctgtgtgtgtgaggtgcgta 2100
Db 2041 ttctgttgcgcacaaagtaattgtgtgtctgtgtgcacccctgtgtgtgtgaggtgcgta 2100
QY 2101 gctgcacagctgggggctggggcctcctctcctctcctccagctctttaggggctgcctg 2160
Db 2101 gctgcacagctgggggctggggcctcctctcctctcctccagctctttaggggctgcctg 2160
QY 2161 actggagccttccaaaggggtttcagctgtgacctatacagggagccagaggggctcc 2220
Db 2161 actggagccttccaaaggggtttcagctgtgacctatacagggagccagaggggctcc 2220
QY 2221 atgcaactgggaatgcggggaactctgcaggtggattaccaggtcaggtttaacagctagc 2280
Db 2221 atgcaactgggaatgcggggaactctgcaggtggattaccaggtcaggtttaacagctagc 2280
QY 2281 ctctagttgagacacacacttagaaggggttttgggagctggaataaactcagtcacctg 2340
Db 2281 ctctagttgagacacacacttagaaggggttttgggagctggaataaactcagtcacctg 2340
QY 2341 gtttcccatctctaagcccttaccctgcagcttctgtttaatgtagctcttgcattggag 2400
Db 2341 gtttcccatctctaagcccttaccctgcagcttctgtttaatgtagctcttgcattggag 2400
QY 2401 tttctagatgaaaaactctccatgggatttgaacatatgactattttagggggaaga 2460
Db 2401 tttctagatgaaaaactctccatgggatttgaacatatgactattttagggggaaga 2460
QY 2461 gtcctgaggggcaacacacagaccaggttccctcagccacacagcactgtcttttgcct 2520
Db 2461 gtcctgaggggcaacacacagaccaggttccctcagccacacagcactgtcttttgcct 2520
QY 2521 gatccacccccctcttacccttttatcaggtatggcctgtgttgcctctgttgcctatca 2580
Db 2521 gatccacccccctcttacccttttatcaggtatggcctgtgttgcctctgttgcctatca 2580
|||||

Db 241 gagtgcctgaacggccccctgagccctaccgcgctggcccactatggtccagagggctgtg 300
Qy 301 ggtgagccgctgtgcgggacccggaaagccagctcttggctgtaacctgtctaaacctt 360
Db 301 ggtgagccgctgtgcgggacccggaaagccagctcttggctgtaacctgtctaaacctt 360
Qy 361 tggcttgaggtgtgtttggccgagggcagcatcacctatgtgcgcctctgtgcgtggaagt 420
Db 361 tggcttgaggtgtgtttggccgagggcagcatcacctatgtgcgcctctgtgcgtggaagt 420
Qy 421 gggggtagagagaagttcatgacocatgtgtgctgggaattggtccagtgctggccctgggt 480
Db 421 gggggtagagagaagttcatgacocatgtgtgctgggaattggtccagtgctggccctgggt 480
Qy 481 ctgtgtcccgctctctaggtcagccagtgaccactggcgtagacgctatggccgcgcgcg 540
Db 481 ctgtgtcccgctctctaggtcagccagtgaccactggcgtagacgctatggccgcgcgcg 540
Qy 541 gcccttcatctgggcaactgtcttgggcaactctgtgagcctcttctctcatcccaaggcc 600
Db 541 gcccttcatctgggcaactgtcttgggcaactctgtgagcctcttctctcatcccaaggcc 600
Qy 601 cggcttggtcagcagggctgtgtgcccggatcccgagccctggagctggcactgctcat 660
Db 601 cggcttggtcagcagggctgtgtgcccggatcccgagccctggagctggcactgctcat 660
Qy 661 cctgggctggggctgtggtgacttctgtggccaggtgtgttcaactcaactggagccct 720
Db 661 cctgggctggggctgtggtgacttctgtggccaggtgtgttcaactcaactggagccct 720
Qy 721 gctcttgaccttccgggacccggacacactgtgcagacccactctgtctatgctt 780
Db 721 gctcttgaccttccgggacccggacacactgtgcagacccactctgtctatgctt 780
Qy 781 catgatacgttggggctgctgggctacctctgctgctgctgctgctgctgctgctgctt 840
Db 781 catgatacgttggggctgctgggctacctctgctgctgctgctgctgctgctgctgctt 840
Qy 841 tgccttgcccccctacctgggacccagagagagtgctcttggcctgtcacccctcat 900
Db 841 tgccttgcccccctacctgggacccagagagagtgctcttggcctgtcacccctcat 900
Qy 901 ctctctcactcgttagcagccacactgctgtggtgagggcagcgtgggccccac 960
Db 901 ctctctcactcgttagcagccacactgctgtggtgagggcagcgtgggccccac 960
Qy 961 cgagccagagaagggctgtcgggccccctctgtgcgccactgctgtccatgcccggc 1020
Db 961 cgagccagagaagggctgtcgggccccctctgtgcgccactgctgtccatgcccggc 1020
Qy 1021 ccgcttggttccggaaacctgggcccctgctcttcccggctgcacacagctgtgctgcg 1080
Db 1021 ccgcttggttccggaaacctgggcccctgctcttcccggctgcacacagctgtgctgcg 1080
Qy 1081 catgccccgcaacctgcgcggctcttgcgtgagctgtgagctggatggcactcat 1140
Db 1081 catgccccgcaacctgcgcggctcttgcgtgagctgtgagctggatggcactcat 1140
Qy 1141 gaccttcagctgttttacacagatttcgtggcgagggcgtgtaccagggcgtgcccg 1200
Db 1141 gaccttcagctgttttacacagatttcgtggcgagggcgtgtaccagggcgtgcccg 1200
Qy 1201 agctgagcgggacccgagggcccgagacactatgatgaaaggcgttcggatggcgagcct 1260
Db 1201 agctgagcgggacccgagggcccgagacactatgatgaaaggcgttcggatggcgagcct 1260
Qy 1261 ggggctgttcctgagtgccgcatctccctggcttctctgtctgtctatggcagcggtggt 1320
Db 1261 ggggctgttcctgagtgccgcatctccctggcttctctgtctgtctatggcagcggtggt 1320
Qy 1321 gcagcgattcggcactcgagcagctatttggcagtggtggcagcttccctgtggctgc 1380
Db 1321 gcagcgattcggcactcgagcagctatttggcagtggtggcagcttccctgtggctgc 1380

Qy 1381 cgggtgcacatgctgtcccacagtggtggccgtgtggtgacagtttcagccgctccacgg 1440
Db 1381 cgggtgcacatgctgtcccacagtggtggccgtgtggtgacagtttcagccgctccacgg 1440
Qy 1441 gttcaccttctcagccctgcagatcctgcctacacactggcctccctctaccacccggga 1500
Db 1441 gttcaccttctcagccctgcagatcctgcctacacactggcctccctctaccacccggga 1500
Qy 1501 gaagcaggttctcctcccacataccgaggggacactggaggtgtcagcagtgaggacag 1560
Db 1501 gaagcaggttctcctgcccacataccgaggggacactggaggtgtcagcagtgaggacag 1560
Qy 1561 cctgatgacagcttctcctgcagccctaaagcctggagctcccttcccttaataatggacacgt 1620
Db 1561 cctgatgacagcttctcctgcagccctaaagcctggagctcccttcccttaataatggacacgt 1620
Qy 1621 ggggtgtgagggcagtgctcctccacactccacccgcctctgcgggctctgcctg 1680
Db 1621 ggggtgtgagggcagtgctcctccacactccacccgcctctgcgggctctgcctg 1680
Qy 1681 tgatgtctcgtacgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 1740
Db 1681 tgatgtctcgtacgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 1740
Qy 1741 gggcatctgctggacactcgcctcctggtatgctgtcctcctcctcctcctcctcctcct 1800
Db 1741 gggcatctgctggacactcgcctcctggtatgctgtcctcctcctcctcctcctcctcct 1800
Qy 1801 atccctgtttatgggctccattgtccagctcagcagctcgtcactgcctatatgtgtgtc 1860
Db 1801 atccctgtttatgggctccattgtccagctcagcagctcgtcactgcctatatgtgtgtc 1860
Qy 1861 tgcgcagggctgggtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 1920
Db 1861 tgcgcagggctgggtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 1920
Qy 1921 cgacttgcccaataactcagctagaaaaacttccagcacattggggtggagggcctgctcct 1980
Db 1921 cgacttgcccaataactcagctagaaaaacttccagcacattggggtggagggcctgctcct 1980
Qy 1981 cactgggttccagctcccctcctctgttagcccaactgggctgcgggctgcggccagct 2040
Db 1981 cactgggttccagctcccctcctctgttagcccaactgggctgcgggctgcggccagct 2040
Qy 2041 tctgtgtgtgcacaaagtaattgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 2100
Db 2041 tctgtgtgtgcacaaagtaattgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 2100
Qy 2101 gctgcacagctggggctgggggctcctctcctcctcctcctcctcctcctcctcctcctg 2160
Db 2101 gctgcacagctgggggctgggggctcctctcctcctcctcctcctcctcctcctcctcctg 2160
Qy 2161 actgagggccttccaaagggttttcagcttgcagcttatacagggagggccagaaaggctcc 2220
Db 2161 actgagggccttccaaagggttttcagcttgcagcttatacagggagggccagaaaggctcc 2220
Qy 2221 atgcacttggaatgcgggactcgtgcaggttgattaccacaggtcaggggttaacagctagc 2280
Db 2221 atgcacttggaatgcgggactcgtgcaggttgattaccacaggtcaggggttaacagctagc 2280
Qy 2281 ctcctagttagacacacacttagaaggggtttttggagctgaataaactcaactcagctcagctg 2340
Db 2281 ctcctagttagacacacacttagaaggggtttttggagctgaataaactcaactcagctcagctg 2340
Qy 2341 gtttcccatctcctaagcccttaacctgcagcttcgttttaagttagctcttgcctgagggag 2400
Db 2341 gtttcccatctcctaagcccttaacctgcagcttcgttttaagttagctcttgcctgagggag 2400
Qy 2401 tttctagatgaacacactcctccatgggatttgaaacatatgacttattttaggggggaga 2460
Db 2401 tttctagatgaacacactcctccatgggatttgaaacatatgacttattttaggggggaga 2460

QY 2401 ttctaggatgaacactcctccatggatttgaacatatgacttattttagtgggaaga 2460
DB 2401 ttctaggatgaacactcctccatggatttgaacatatgacttattttagtgggaaga 2460
QY 2461 gtctgaggggaacacacagaacaggtccctcagccacagcactgtcttttgc 2520
DB 2461 gtctgaggggaacacacagaacaggtccctcagccacagcactgtcttttgc 2520
QY 2521 gatccacccctcttaccttttatcagatgtgacctgttgcctcttctgttgcac 2580
DB 2521 gatccacccctcttaccttttatcagatgtgacctgttgcctcttctgttgcac 2580
QY 2581 cagagacagcgatttaataatttaacttattttaaacaagtagaaggaatccat 2640
DB 2581 cagagacagcgatttaataatttaacttattttaaacaagtagaaggaatccat 2640
QY 2641 tgcctagctttctgtgttgccttaataatttgggtaggtggggatccccaacaatca 2700
DB 2641 tgcctagctttctgtgttgccttaataatttgggtaggtggggatccccaacaatca 2700
QY 2701 ggtccctcagatagctgctgattggctgacattgccagaaatcttctcctgggt 2760
DB 2701 ggtccctcagatagctgctgattggctgacattgccagaaatcttctcctgggt 2760
QY 2761 ctggccccccaaatgcctaacccagaccttggaaattctactatcccaaatgataat 2820
DB 2761 ctggccccccaaatgcctaacccagaccttggaaattctactatcccaaatgataat 2820
QY 2821 tccaaatgctgtaccacaggttaggtgttgaagaaagtagaggtgggtcaggt 2880
DB 2821 tccaaatgctgtaccacaggttaggtgttgaagaaagtagaggtgggtcaggt 2880
QY 2881 ctcaacggcttccctaaacacccctctctcttggccagcctgttcccccaactcca 2940
DB 2881 ctcaacggcttccctaaacacccctctctcttggccagcctgttcccccaactcca 2940
QY 2941 ctccctctactctctctagactgggtgatgaaggcactgcccaaaattccccctacc 3000
DB 2941 ctccctctactctctctagactgggtgatgaaggcactgcccaaaattccccctacc 3000
QY 3001 cccaaacttccctaccacccacttccccaccagctccacaacccctgttggagctact 3060
DB 3001 cccaaacttccctaccacccacttccccaccagctccacaacccctgttggagctact 3060
QY 3061 gcaggacagaagcacaagtgcgtttcccaagcctttgtccatctcagccccagagt 3120
DB 3061 gcaggacagaagcacaagtgcgtttcccaagcctttgtccatctcagccccagagt 3120
QY 3121 atatctgtcttgggaatctcacagaaactcaggagcaccctcctgctgagctaaagg 3180
DB 3121 atatctgtcttgggaatctcacagaaactcaggagcaccctcctgctgagctaaagg 3180
QY 3181 gaggcttatctctcaggggggttaagtgcgtttgcaataagtctgtattattatt 3240
DB 3181 gaggcttatctctcaggggggttaagtgcgtttgcaataagtctgtattattatt 3240
QY 3241 tagcgggtggaattttatatttgaagtgaagcaatcagagtataatgtttatgtgaca 3300
DB 3241 tagcgggtggaattttatatttgaagtgaagcaatcagagtataatgtttatgtgaca 3300
QY 3301 aaattaaaggctttcttatatttttaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa 3360
DB 3301 aaattaaaggctttcttatatttttaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa 3360
QY 3361 aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa 3410
DB 3361 aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa 3410

RESULT 7
AAH84779
ID AAH84779 standard; cDNA; 3410 BP.

XX
AC AAH84779;
DT 25-SEP-2001 (first entry)
DE Human prostate-specific cDNA sequence L1-12/P501S.
XX
KW Human; prostate cancer; therapy; diagnosis; cat eye syndrome; chromosome 22q11.2; prostate-specific protein; chromosome 1; prostate specific antigen; PSA; ss.
XX
OS Homo sapiens.
XX
PN WO200134802-A2.
XX
PD 17-MAY-2001.
XX
PF 09-NOV-2000; 2000WO-US30904.
XX
PR 12-NOV-1999; 99US-0439313.
PR 18-NOV-1999; 99US-0443686.
XX
PA (CORI-) CORIXA CORP.
XX
PI Xu J, Dillon DC, Mitcham JL, Harlocker SL, Jiang Y, Reed SG; Kalos MD, Retter MW, Stolk JA, Day CH, Skeiky YAW, Wang A; WPI; 2001-308785/32.
XX
PT Isolated polypeptide comprising at least an immunogenic portion of a prostate-specific protein, useful in the diagnosis and therapy of prostate cancer.
XX
PS Claim 5; Page 164-165; 325pp; English.
XX
CC The present invention describes an isolated polypeptide (P1) comprising at least an immunogenic portion of a prostate-specific protein, or its variant. Also described are polynucleotides (N1) encoding (P1). (P1) and (N1) have cytostatic activity and can be used in vaccine production. The polypeptides, nucleic acids and antibodies from the present invention are useful in the diagnosis and therapy of prostate cancer. Prostate specific genes P704P, P712P, P774P, P775P and B305D are located in a genomic region on chromosome 22q11.2 known as the Cat Eye Syndrome region. Prostate specific antigen (PSA) P501S was located on chromosome 1. AAH84671 to AAH85143 and AAG9000 to AAG9077 represent polynucleotide and polypeptide sequences used in the exemplification of the present invention.
XX
SQ Sequence 3410 BP; 667 A; 1014 C; 945 G; 783 T; 1 other;

Query Match 100.0%; Score 3409.6; DB 22; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 gggaaaccagcctgcacgcgtgctccgggtgacagccgcgcctcggccaggtatcga 60
DB 1 gggaaaccagcctgcacgcgtgctccgggtgacagccgcgcctcggccaggtatcga 60
QY 61 gtgatgagacgtgtcccaactgaggtgccccacagcagcaggtgttgacatggcgtgag 120
DB 61 gtgatgagacgtgtcccaactgaggtgccccacagcagcaggtgttgacatggcgtgag 120
QY 121 aagctggagccggcaccacaaaggctggcagaaatggcgctgctgctatcctaggcagt 180
DB 121 aagctggagccggcaccacaaaggctggcagaaatggcgctgctgctatcctaggcagt 180
QY 181 ggcgcgcagcaaggagagagcgcagctcttggagcagagccgagacgaagcagctctg 240
DB 181 ggcgcgcagcaaggagagagcgcagctcttggagcagagccgagacgaagcagctctg 240
QY 241 gagtgcctgaacgccccctgagccctgcccctggccactatggtccagaggtgtg 300
DB 241 gagtgcctgaacgccccctgagccctgcccctggccactatggtccagaggtgtg 300


```
QY 2341 gttcccatcttaagcccttaacctcagcttcggttaattgaatgttagctcttcagctggag 2400
Db 2341 gttcccatcttaagcccttaacctcagcttcggttaattgaatgttagctcttcagctggag 2400
QY 2401 ttctagatgaacacactcctccatggatttgaacatatgacttattttagtgagggaaga 2460
Db 2401 ttctagatgaacacactcctccatggatttgaacatatgacttattttagtgagggaaga 2460
QY 2461 gtcctgaggggcaacacagaacaggtccctcagcccccagcactgtcttttctgt 2520
Db 2461 gtcctgaggggcaacacagaacaggtccctcagcccccagcactgtcttttctgt 2520
QY 2521 gatcaacccctcttacccttttaccagatgtgcccgttgcctctctgttggcaca 2580
Db 2521 gatcaacccctcttacccttttaccagatgtgcccgttgcctctctgttggcaca 2580
QY 2581 cagagacagcatttaataatttaacttatttatttaacaaagtagaagggaatccat 2640
Db 2581 cagagacagcatttaataatttaacttatttatttaacaaagtagaagggaatccat 2640
QY 2641 tctagctttctgtgtgtcttaataatttggatgggtggggtccccaacaatca 2700
Db 2641 tctagctttctgtgtgtgtcttaataatttggatgggtggggtccccaacaatca 2700
QY 2701 ggtccctgagatagctgttcattggctgattgcagaaattcttctctctgggt 2760
Db 2701 ggtccctgagatagctgttcattggctgattgcagaaattcttctctctgggt 2760
QY 2761 ctggcccccacaaatgcctaaacccagaccttggaaattctactcaccacaatgata 2820
Db 2761 ctggcccccacaaatgcctaaacccagaccttggaaattctactcaccacaatgata 2820
QY 2821 tccaaatgctttaccagaggttaggtgttgaagaaagtagaggtgggtctcaggt 2880
Db 2821 tccaaatgctttaccagaggttaggtgttgaagaaagtagaggtgggtctcaggt 2880
QY 2881 ctcaacgggttccctaaacacccctctctctgttggccagacctgttcccccactcca 2940
Db 2881 ctcaacgggttccctaaacacccctctctctgttggccagacctgttcccccactcca 2940
QY 2941 ctccctctactctctctagactggctgatgaaggaactcccaaaatttccctacc 3000
Db 2941 ctccctctactctctctagactggctgatgaaggaactcccaaaatttccctacc 3000
QY 3001 cccaaatttccctaccacccatttcccccacagctccacaacctgttggagctact 3060
Db 3001 cccaaatttccctaccacccatttcccccacagctccacaacctgttggagctact 3060
QY 3061 gcaggaccagaagcacaaagtgcggtttcccaagcctttgtccatctcagcccccaggt 3120
Db 3061 gcaggaccagaagcacaaagtgcggtttcccaagcctttgtccatctcagcccccaggt 3120
QY 3121 atatctgtcttgggggaattcaccacagaacactcaggagcacccctgctgagctaa 3180
Db 3121 atatctgtcttgggggaattcaccacagaacactcaggagcacccctgctgagctaa 3180
QY 3181 gaggcttattctcaggggggttttaagtgcgttttgaataataatgtcttatttt 3240
Db 3181 gaggcttattctcaggggggttttaagtgcgttttgaataataatgtcttatttt 3240
QY 3241 tagcgggtgaaattttactgtgaagtgaacatcagagtataatgtttatggtgaca 3300
Db 3241 tagcgggtgaaattttactgtgaagtgaacatcagagtataatgtttatggtgaca 3300
QY 3301 aaattaaaggcttcttattgttttaaaaaaaataaaaaaaataaaaaaaataaaaa 3360
Db 3301 aaattaaaggcttcttattgttttaaaaaaaataaaaaaaataaaaaaaataaaaa 3360
QY 3361 aaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaa 3410
Db 3361 aaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaa 3410
```

```
RESULT 6
AAH93465
ID AAH93465 standard; cDNA; 3410 BP.
XX
AC AAH93465;
XX
DT 04-OCT-2001 (first entry)
XX
DE Human prostate-specific full length cDNA sequence L1-12.
XX
KW Human; prostate cancer; prostate-specific; diagnosis; vaccine;
KW cytosolic; gene therapy; metastasis; ss.
OS Homo sapiens.
PN WO200151633-A2.
XX
PD 19-JUL-2001.
XX
PF 16-JAN-2001; 2001WO-US01574.
XX
PR 14-JAN-2000; 2000US-0483672.
XX
PA (CORI-) CORIXA CORP.
XX
PI Xu J, Dillon DC, Mitcham JL, Harlocker SL, Jiang Y, Reed SG;
PI Kalos MD, Fanger GR, Day CH, Retter MW, Stolk JA, Skeiky YAW;
PI Wang A, Meagher MJ;
XX
WPI: 2001-425873/45.
XX
New polynucleotide encoding a prostate-specific protein, for
PT diagnosing, monitoring and treating prostate cancer in a patient and
PT for use in vaccines -
XX
Claim 1; Page 265-266; 543pp; English.
XX
The present invention describes polynucleotide sequences (I) which encode
prostate-specific proteins (II). (I) and (II) have cytostatic activity,
and can be used in vaccine production and gene therapy. (I), (II),
antibodies to (II), fusion proteins comprising (II), and isolated
T cells prepared using (I) or (II) are used to treat cancer in a patient.
(I) and the antibodies are also used in the detection of cancer in a
patient. The cancer that is diagnosed or treated is particularly
prostate cancer. (I) and (II) can be used in vaccines. The antibodies or
(I) can be used for monitoring the progression of cancer in a patient.
(I) and (II) can also be used to improve diagnostic and therapeutic
methods for prostate cancer. They can indicate the level of metastasis
as well as the prostate volume. AAH93357 to AAH93944 and AAH01115 to
AAH01318 represent polynucleotide and amino acid sequences used in the
exemplification of the present invention.
XX
Sequence 3410 BP; 667 A; 1014 C; 945 G; 783 T; 1 other;
Query Match 100.0%; Score 3409.6; DB 22; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ggggaaccagctgcacgcgctggtccgggtgacagcgcgcgcctgcagcaggtctga 60
Db 1 ggggaaccagctgcacgcgctggtccgggtgacagcgcgcgcctgcagcaggtctga 60
QY 61 gtgatgacgtgtcccaactgaggtgccccacagcagcaggtgtttagcatgggtgag 120
Db 61 gtgatgacgtgtcccaactgaggtgccccacagcagcaggtgtttagcatgggtgag 120
QY 121 aagctggaccggcaccacaaagggtgagaaatggcgctggtgcttagcagcaggt 180
Db 121 aagctggaccggcaccacaaagggtgagaaatggcgctggtgcttagcagcaggt 180
QY 181 ggcgcagcaaggagagagccgcagcttctggagcagcgcgcagcagcagcagctgtg 240
```


[illegible]

Db	3181	gaggcttatctctcaggggggttaagtgcgtttgcaataatgctgtctattatt	3240
Qy	3241	tagcggggtgaatatattatactgtaagtgaagcaatcagagtataatgtttatggtgaca	3300
Db	3241	tagcggggtgaatatattatactgtaagtgaagcaatcagagtataatgtttatggtgaca	3300
Qy	3301	aaattaaggcttcttatgtttataaaaaaataaaaaaataaaaaaataaaaaa	3360
Db	3301	aaattaaggcttcttatgtttataaaaaaataaaaaaataaaaaaataaaaaa	3360
Qy	3361	aaaaaaaraaaaaaataaaaaaataaaaaaataaaaaaataaaaaa	3410
Db	3361	aaaaaaaraaaaaaataaaaaaataaaaaaataaaaaaataaaaaa	3410
RESULT 5			
ID	AAS10108 standard; cDNA; 3410 BP.		
AC	AAS10108;		
DT	24-OCT-2001 (first entry)		
DE	Human prostate tumour cDNA L1-12.		
DE	Human; prostate tumour protein; prostate cancer; ss.		
KW	Homo sapiens.		
OS	US6262245-B1.		
PN	17-JUL-2001.		
PD	25-FEB-1998; 98US-0030607.		
XX	25-FEB-1997; 97US-0806099.		
PR	01-AUG-1997; 97US-0904804.		
PR	09-FEB-1998; 98US-0020956.		
XX	(CORI-) CORIXA CORP.		
PA	Xu J, Dillon DC;		
PI	WPI; 2001-440862/47.		
XX	P-PSDB; AAU04961.		
DR	Novel polynucleotide encoding polypeptide comprising a portion of		
DR	prostate tumour protein useful for inhibiting development of prostate		
DR	cancer or for treating prostate cancer in a patient -		
XX	Claim 3; Column 118-121; 105pp; English.		
PS	The sequence is a human prostate tumour cDNA which encodes a		
CC	partial tumour protein. The DNA is useful for inhibiting the development		
CC	of prostate cancer or for treating prostate cancer in a patient.		
XX	Sequence 3410 BP; 667 A; 1014 C; 945 G; 783 T; 1 other;		
SQ	Query Match 100.0%; Score 3409.6; DB 22; Length 3410;		
	Best Local Similarity 100.0%; Pred. No. 0;		
	Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
Qy	1	gggaaccagcctgcacgcgtggtcccggtgacagccgcgcctccgcaggatctga	60
Db	1	gggaaccagcctgcacgcgtggtcccggtgacagccgcgcctccgcaggatctga	60
Qy	61	gtgatgacagtgtcccccactgaggtgcccacagcagcaggtgttgagcatgggctgag	120
Db	61	gtgatgacagtgtcccccactgaggtgcccacagcagcaggtgttgagcatgggctgag	120
Qy	121	asgtggtgaccggcaccaaaggctggcagaaatgggcgcctggctgattcctaggcatt	180

Query Match	100.0%	Score	3409.6	DB 22	Length	3410
Best Local Similarity	100.0%	Pred. No.	0			
Matches 3410	Conservative	0	Mismatches	0	Indels	0
Gaps	0					
Qy	1	gggaaccagctgcacgcgtggtccgggtgacagccgcgcctcggccaggaatctga	60			
Db	1	gggaaccagctgcacgcgtggtccgggtgacagccgcgcctcggccaggaatctga	60			
Qy	61	gtgatgacgtgtcccaactgaggtgccacacagacagagtggtgagcatggcctgag	120			
Db	61	gtgatgacgtgtcccccacTgaggtgccacacagacagagtggtgagcatggcctgag	120			
Qy	121	aagctggaccggcaccaaaaggctggcgagaaatggcgctcggtgattccttagcagtt	180			
Db	121	aagctggaccggcaccaaaaggctggcgagaaatggcgctcggtgattccttagcagtt	180			
Qy	181	ggcgacacagaggaagagccgcagcttctggagcagagccgagacgaagcagttctg	240			
Db	181	ggcgacacagaggaagagccgcagcttctggagcagagccgagacgaagcagttctg	240			
Qy	241	gagtgctgaagggccccctgagcctaccgcctggcccactatggctccagagcgtgtg	300			
Db	241	gagtgctgaagggccccctgagcctaccgcctggcccactatggctccagagcgtgtg	300			
Qy	301	ggtgagccgctgtgcggcaccggaaagccagctcttctgggttcaacctgtcaacct	360			
Db	301	ggtgagccgctgtgcggcaccggaaagccagctcttctgggttcaacctgtcaacct	360			
Qy	361	tggcctgaggtgtgtttggcgcgagggcataacctatgtgcgcctctgtctgtggaagt	420			
Db	361	tggcctgaggtgtgtttggcgcgagggcataacctatgtgcgcctctgtctgtggaagt	420			
Qy	421	ggggtagagagaagtcatgacatggtgctggcattggctccagtgctgggcctggt	480			
Db	421	ggggtagagagaagtcatgacatggtgctggcattggctccagtgctgggcctggt	480			
Qy	481	ctgtgtcccgtccttagctcagcagtgacacactggcgtgagcgtatggcgcgcgcg	540			
Db	481	ctgtgtcccgtccttagctcagcagtgacacactggcgtgagcgtatggcgcgcgcg	540			
Qy	541	gcccctcaactggcacgtgctctgggcactctgtgagcctcttctcaactcccaaggc	600			
Db	541	gcccctcaactggcacgtgctctgggcactctgtgagcctcttctcaactcccaaggc	600			
Qy	601	ggcgtggctagcagggtcgtctgtcccggatcccaggccccctggagctggcactgctat	660			
Db	601	ggcgtggctagcagggtcgtctgtcccggatcccaggccccctggagctggcactgctat	660			
Qy	661	cttgggcgtggggctgctgagactctgtggcaggtgtgtctcaactccactgaggccct	720			
Db	661	cttgggcgtggggctgctgagactctgtggcaggtgtgtctcaactccactgaggccct	720			
Qy	721	gtctctgacctcttcggggaccccgaccactgtgccaggccctactctgtctatgctt	780			
Db	721	gtctctgacctcttcggggaccccgaccactgtgccaggccctactctgtctatgctt	780			
Qy	781	catgatcagctctgggggctgctgggtcaacctcctgcctggcattgactgggacaccag	840			
Db	781	catgatcagctctgggggctgctgggtcaacctcctgcctggcattgactgggacaccag	840			
Qy	841	tggcctggccccctacctgggcaaccagaggaagtgcctcttttggtcgtgctcaacctcat	900			
Db	841	tggcctggccccctacctgggcaaccagaggaagtgcctcttttggtcgtgctcaacctcat	900			
Qy	901	cttcttcaactcgttagcagccacactgctggtggctgaggagcagcgtgggccccac	960			
Db	901	cttcttcaactcgttagcagccacactgctggtggctgaggagcagcgtgggccccac	960			
Qy	961	cgagccagcagaagggtgctggccccctcttctgtgcgccactgtgtccatgcccggc	1020			
Db	961	cgagccagcagaagggtgctggccccctcttctgtgcgccactgtgtccatgcccggc	1020			

[illegible]

QY 2161 actgaggcctccaagggtttcaagtctgacttatacaggagccagaaaggctcc 2220
Db 2161 actgaggcctccaagggtttcaagtctgacttatacaggagccagaaaggctcc 2220
QY 2221 atgcactgaaatgcggggaactctgaggtggattacccaggtcagggttaacagtagc 2280
Db 2221 atgcactgaaatgcggggaactctgaggtggattacccaggtcagggttaacagtagc 2280
QY 2281 ctccctagtggacacacacttagaagggtttttggagctgaataaaactcagtcacctg 2340
Db 2281 ctccctagtggacacacacttagaagggtttttggagctgaataaaactcagtcacctg 2340
QY 2341 gtttcccatctaaagcccttaaacctgcagcttgctttaaattgtagctcttgcatgggag 2400
Db 2341 gtttcccatctaaagcccttaaacctgcagcttgctttaaattgtagctcttgcatgggag 2400
QY 2401 ttcttaggatgaacactcctccatcgggatttgaacatatgacttatttggtagggaaga 2460
Db 2401 ttcttaggatgaacactcctccatcgggatttgaacatatgacttatttggtagggaaga 2460
QY 2461 gtccctgaggggcaacacacagaacacaggtccctccagccacagcaactgtcttttgcct 2520
Db 2461 gtccctgaggggcaacacacagaacacaggtccctccagccacagcaactgtcttttgcct 2520
QY 2521 gatccacccctcttacccttttaccagatgtgacctgtgttctcttctgttgcacata 2580
Db 2521 gatccacccctcttacccttttaccagatgtgacctgtgttctcttctgttgcacata 2580
QY 2581 cagagacacagcatttaaaatttaactatttatttattttaaacaagtagaagggaatccat 2640
Db 2581 cagagacacagcatttaaaatttaactatttatttattttaaacaagtagaagggaatccat 2640
QY 2641 tgcctagctttctgtgtgtgtctaaatttgggttaggtgaggtggggtcccaacaata 2700
Db 2641 tgcctagctttctgtgtgtgtctaaatttgggttaggtgaggtggggtcccaacaata 2700
QY 2701 ggtccctcctgagatagctggtcatttggctgacatgccagaaattcttctccctggggt 2760
Db 2701 ggtccctcctgagatagctggtcatttggctgacatgccagaaattcttctccctggggt 2760
QY 2761 ctggccccccaaaatgcctaacccagaccttggaaattctactatcccaaatgataat 2820
Db 2761 ctggccccccaaaatgcctaacccagaccttggaaattctactatcccaaatgataat 2820
QY 2821 tccaaatgctgttaccacaggttaggtgttgaaaggaaggtagaggtggggtctcaggt 2880
Db 2821 tccaaatgctgttaccacaggttaggtgttgaaaggaaggtagaggtggggtctcaggt 2880
QY 2881 ctcaacggtctccctaaacacccctctctcttcttggccagcctggttcccccacttcca 2940
Db 2881 ctcaacggtctccctaaacacccctctctcttcttggccagcctggttcccccacttcca 2940
QY 2941 ctccctctactctcttagactgggtgatgaaggcactgcccaaaatttccctacc 3000
Db 2941 ctccctctactctcttagactgggtgatgaaggcactgcccaaaatttccctacc 3000
QY 3001 cccaaacttccctaccctcccaacttcccccagctccacacccctgtttggagctact 3060
Db 3001 cccaaacttccctaccctcccaacttcccccagctccacacccctgtttggagctact 3060
QY 3061 gcaggaccagaagacaaagtgcgggttcccaagccttctccatctcagccccagagt 3120
Db 3061 gcaggaccagaagacaaagtgcgggttcccaagccttctccatctcagccccagagt 3120
QY 3121 atattctgcttggggaatctcacacagaaactcagggagcaccctccctcctgagctaaag 3180
Db 3121 atattctgcttggggaatctcacacagaaactcagggagcaccctccctcctgagctaaag 3180
QY 3181 gaggtcttatctctcaggggggttttaagtccggtttgcaataatgtcgtctattttatt 3240
Db 3181 gaggtcttatctctcaggggggttttaagtccggtttgcaataatgtcgtctattttatt 3240

QY 3241 tagcgggtggaatatttttactgttaagtgaagcaatcagagataatgtttatgtgaca 3300
Db 3241 tagcgggtggaatatttttactgttaagtgaagcaatcagagataatgtttatgtgaca 3300
QY 3301 aaattaaaggcttcttatatgttttaaaaaaaataaaaaaaataaaaaaaataaaaa 3360
Db 3301 aaattaaaggcttcttatatgttttaaaaaaaataaaaaaaataaaaaaaataaaaa 3360
QY 3361 aaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaa 3410
Db 3361 aaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaa 3410

RESULT 4

AAS63557

ID AAS63557 standard; cDNA; 3410 BP.

XX AAS63557;

XX DT 29-JAN-2002 (first entry)

XX Human prostate cDNA sequence #109.

DE Human; prostate cancer; ss; cytostatic; immunostimulant; tumour.

XX Homo sapiens.

PN WO200173032-A2.

XX PD 04-OCT-2001.

XX PF 27-MAR-2001; 2001WO-US09919.

XX PR 27-MAR-2000; 2000US-0536857.

XX PR 09-MAY-2000; 2000US-0568100.

XX PR 12-MAY-2000; 2000US-0570737.

XX PR 13-JUN-2000; 2000US-0593793.

XX PR 27-JUN-2000; 2000US-0605783.

XX PR 10-AUG-2000; 2000US-0636215.

XX PR 29-AUG-2000; 2000US-0651236.

XX PR 06-SEP-2000; 2000US-0657279.

XX PR 02-OCT-2000; 2000US-0679426.

XX PR 10-OCT-2000; 2000US-0685166.

XX (CORI-) CORIXA CORP.

XX Xu J, Dillon DC, Mitcham JL, Harlocker SL, Jiang Y, Kalos MD;

XX Fanger GR, Retter MW, Stolk JA, Day CH, Vedrick TS, Carter D;

XX Li SX, Wang A, Skeiky YAW, Hepler WT, Henderson RA;

XX WPI; 2001-639232/73.

XX P-PSDB; AAU69763.

XX New human prostate-specific polypeptides and polynucleotides useful for

XX the diagnosis and treatment of cancer, especially prostate cancer -

XX Claim 1; Page 267-268; 579pp; English.

XX The invention relates to isolated prostate-specific

XX polynucleotides, polypeptides, fusion proteins of the polypeptides,

XX antibodies raised against the polypeptides (or antigenic epitopes

XX derived from them) and antigen-presenting cells expressing the

XX polypeptides. The antibodies are useful for detecting the presence of

XX cancer, especially prostate cancer. The polypeptides, polynucleotides and

XX the antigen-presenting cells are useful for stimulating and/or expanding

XX T cells specific for a tumour protein, and for inhibiting the development

XX of cancer especially prostate cancer. Compositions comprising the

XX polynucleotide and/or polypeptide are useful for stimulating an immune

XX response, and for treating cancer. The oligonucleotide is useful for

XX detecting cancer. The present sequence is a prostate specific

XX polynucleotide of the invention.

XX Sequence 3410 BP; 667 A; 1014 C; 945 G; 783 T; 1 other;

Best Local Similarity 100.0%; Pred. No. 0;			
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
QY 1	ggaaacagcctcagcgcctgctcgggtgacagccgcgcgcctcggccaggaatctga	60	
Db	1 gggaaacagcctcagcgcctgctcgggtgacagccgcgcgcctcggccaggaatctga	60	
QY 61	gtgatgagacgtgtcccaactgaggtgcccacagcagcaggtgttgagcatggctgag	120	
Db	61 gtcatgagacgtgtcccaactgaggtgcccacagcagcaggtgttgagcatggctgag	120	
QY 121	aagctggaacggccacaaagggtggcagaaaaatggcgccctggctgattctaggcaatt	180	
Db	121 aagctggaacggccacaaagggtggcagaaaaatggcgccctggctgattctaggcaatt	180	
QY 181	ggcggcagcaagagagagcgcagctcttgagacaagcagcagacaagcagttctg	240	
Db	181 ggcggcagcaagagagagcgcagctcttgagacaagcagcagacaagcagttctg	240	
QY 241	gagtgctgaacggcccccctgagccctacccgctgcccactatggtccagaggtgtg	300	
Db	241 gagtgctgaacggcccccctgagccctacccgctgcccactatggtccagaggtgtg	300	
QY 301	ggtgagccgctgctgcggcaccggaaagcccagctcttgctggtcaacctgttaacct	360	
Db	301 ggtgagccgctgctgcggcaccggaaagcccagctcttgctggtcaacctgttaacct	360	
QY 361	tggcctggaggtgtgttggccgagggcaccctacctatgtgcgcctctgtgctggaagt	420	
Db	361 tggcctggaggtgtgttggccgagggcaccctacctatgtgcgcctctgtgctggaagt	420	
QY 421	gggggtagaggaagttcatgacctggtgctggtggcattggtccagtgctggccctggt	480	
Db	421 gggggtagaggaagttcatgacctggtgctggtggcattggtccagtgctggccctggt	480	
QY 481	ctgtgccgcctcctaggctcagcagtgaccactggcgtggagcgtatggccgcgcgcg	540	
Db	481 ctgtgtccgcctcctaggctcagcagtgaccactggcgtggagcgtatggccgcgcgcg	540	
QY 541	gcccctcatctgggcaactgctccttgggcatcctgctgagcctcttctcatcccaaggcc	600	
Db	541 gcccctcatctgggcaactgctccttgggcatcctgctgagcctcttctcatcccaaggcc	600	
QY 601	cggctggctagaggctgctgtgccggatccagggcccctggagctggcactgctcat	660	
Db	601 cggctggctagaggctgctgtgccggatccagggcccctggagctggcactgctcat	660	
QY 661	cctgggcgtgggctgctggactctgtggccaggtgtgcttcactccactggagggcct	720	
Db	661 cctgggcgtgggctgctggactctgtggccaggtgtgcttcactccactggagggcct	720	
QY 721	gctctctgacctcttcogggaaccggacccactgtgccaggccctactctgtctatgctt	780	
Db	721 gctctctgacctcttcogggaaccggacccactgtgccaggccctactctgtctatgctt	780	
QY 781	catgatcaactcttggggctgctggactctgtggccaggtgtgcttcactccactggacaccag	840	
Db	781 catgatcaactcttggggctgctggactctgtggccaggtgtgcttcactccactggacaccag	840	
QY 841	tgccttggcccccctacactgggcaaccagagaggtgctccttggcctgtgctcaccctcat	900	
Db	841 tgccttggcccccctacactgggcaaccagagaggtgctccttggcctgtgctcaccctcat	900	
QY 901	cttctcactcgtgtgagcaacactgctggtggctgagagggcagcgtggcccccac	960	
Db	901 cttctcactcgtgtgagcaacactgctggtggctgagagggcagcgtggcccccac	960	
QY 961	cagccagcagagaggtgtcgcccccctccttctgccccactgtgtccatggccgggc	1020	
Db	961 cagccagcagagaggtgtcgcccccctccttctgccccactgtgtccatggccgggc	1020	
QY 1021	ccgcttggcttccggaacctggcgccctgcttcccggctgacacagctgtgtgctgcg	1080	
Db	1021 ccgcttggcttccggaacctggcgccctgcttcccggctgacacagctgtgtgctgcg	1080	

Db 1021	ccgcttggcttccggaacctggcgccctgcttcccggctgacacagctgtgtgctgcg	1080	
QY 1081	catgccccacacctgcgcgcgtctctcgtggtgagctgagctgagctggatggcaactcat	1140	
Db 1081	catgccccacacctgcgcgcgtctctcgtggtgagctgagctgagctggatggcaactcat	1140	
QY 1141	gaccttcacgctgttttacacggaattctgtggcgaggggctgtacacagggctgcccag	1200	
Db 1141	gaccttcacgctgttttacacggaattctgtggcgaggggctgtacacagggctgcccag	1200	
QY 1201	agctgagccgggcacacgagggcccggagacactatgatgaaggcgttcggatggcagcct	1260	
Db 1201	agctgagccgggcacacgagggcccggagacactatgatgaaggcgttcggatggcagcct	1260	
QY 1261	ggggctgttccctcagtgagcctatccctcgtctctctctctctcgtgacacggctgggt	1320	
Db 1261	ggggctgttccctcagtgagcctatccctcgtctctctctctctcgtgacacggctgggt	1320	
QY 1321	gcagcgattcggcactcgagcagctatttggccagtggtggcgagcttccctgtggctgc	1380	
Db 1321	gcagcgattcggcactcgagcagctatttggccagtggtggcgagcttccctgtggctgc	1380	
QY 1381	cgggtgccaatgcctgtcccacagtggtggcgtggtgacagcttcacggccctcacccg	1440	
Db 1381	cgggtgccaatgcctgtcccacagtggtggcgtggtgacagcttcacggccctcacccg	1440	
QY 1441	gttcaccttctcagcctgcagatcctgcctacacactggcctcctctaccacggga	1500	
Db 1441	gttcaccttctcagcctgcagatcctgcctacacactggcctcctctaccacggga	1500	
QY 1501	gaagcaggtgttccctgcccaaatccagaggggacactggagctgctagcagtaggacag	1560	
Db 1501	gaagcaggtgttccctgcccaaatccagaggggacactggagctgctagcagtaggacag	1560	
QY 1561	cctgatgacagcttccctgcagggccctaaagcctgagctcccttccctaatggacacgt	1620	
Db 1561	cctgatgacagcttccctgcagggccctaaagcctgagctcccttccctaatggacacgt	1620	
QY 1621	gggtgctgagggcagtgccctgtcccaactccacccgcgctctcgtggggcctctgctg	1680	
Db 1621	gggtgctgagggcagtgccctgtcccaactccacccgcgctctcgtggggcctctgctg	1680	
QY 1681	tgatgtctcgttacgtgtggtggtgagccacacagggccaggggttcccgggccg	1740	
Db 1681	tgatgtctcgttacgtgtggtggtgagccacacagggccaggggttcccgggccg	1740	
QY 1741	gggcatctgctggacctgcgcctcctggatagtgcttccctgctgtccaggtggcccc	1800	
Db 1741	gggcatctgctggacctgcgcctcctggatagtgcttccctgctgtccaggtggcccc	1800	
QY 1801	atccctgtttatgggtccaatgtccagctcagcagctgtcactgctctatattgtgtc	1860	
Db 1801	atccctgtttatgggtccaatgtccagctcagcagctgtcactgctctatattgtgtc	1860	
QY 1861	tgcgcagggcctgggtcgtggtccatttactttgtacacaggtagattttgacaagag	1920	
Db 1861	tgcgcagggcctgggtcgtggtccatttactttgtacacaggtagattttgacaagag	1920	
QY 1921	cgaacttggccaaataactcagcgttagaaaaacttccagacaattgggtgagggcctcct	1980	
Db 1921	cgaacttggccaaataactcagcgttagaaaaacttccagacaattgggtgagggcctcct	1980	
QY 1981	cactgggtccagctcccgcctcctgttagcccatgggctgcgggctggcgccagct	2040	
Db 1981	cactgggtccagctcccgcctcctgttagcccatgggctgcgggctggcgccagct	2040	
QY 2041	ttctgttgcgtccaaagtaattgtggctcctcgtgcacccctgtgctgaggtgcgta	2100	
Db 2041	ttctgttgcgtccaaagtaattgtggctcctcgtgcacccctgtgctgaggtgcgta	2100	
QY 2101	gctgcacagctgggggctggggcgctcctcctctctctcccccagctctctagggctgctg	2160	
Db 2101	gctgcacagctgggggctggggcgctcctcctctctctctcccccagctctctagggctgctg	2160	

Db	1981	 cactgggtccacagctcccgcgctctgttagccccatggggtgcgggctggccgcagt	2040
Qy	2041	 ttctgttgctgccaaagttaatgtctctctgctaccaccctgtgctgctgagctgccta	2100
Db	2041	 ttctgttgctgccaagttaatgtggctctctgctgccaccctgtgctgctgagtgcta	2100
Qy	2101	 gctgcacagctggggctggggctccctctctctctccccagctctctagggctgcctg	2160
Db	2101	 gctgcacagctggggctggggctccctctctctctccccagctctctagggctgcctg	2160
Qy	2161	 actggaggccttccaaaggggttcaagtctgacttatcacagggagcccaagaaggctcc	2220
Db	2161	 actggaggccttccaaaggggttcaagtctgacttatcacagggagcccaagaaggctcc	2220
Qy	2221	 atgcactggaatcggggactctgcagtggaattaccagactcagggttaacagctagc	2280
Db	2221	 atgcactggaatcggggactctgcagtggaattaccagactcagggttaacagctagc	2280
Qy	2281	 ctctagttagacacacctagagaagggtttttgggagctgaataaactcagtcacctg	2340
Db	2281	 ctctagttagacacacctagagaagggtttttgggagctgaataaactcagtcacctg	2340
Qy	2341	 gttcccatctctaagcccttaacctgcagcttcgtttaatgtagctcttgcatgggag	2400
Db	2341	 gttcccatctctaagcccttaacctgcagcttcgtttaatgtagctcttgcatgggag	2400
Qy	2401	 tttctaggttagaacactcctccatgggatttgaacatatacattattttaggggaaga	2460
Db	2401	 tttctaggttagaacactcctccatgggatttgaacatatacattattttaggggaaga	2460
Qy	2461	 gtcctgaggggcaacacacaagaacagggtccctccagccacacagcactgtcttttgcct	2520
Db	2461	 gtcctgaggggcaacacacaagaacagggtccctccagccacacagcactgtcttttgcct	2520
Qy	2521	 gatccacccctcttaccotttttacaggatggcctgttggctctcttctgttgccaatca	2580
Db	2521	 gatccacccctcttaccotttttacaggatggcctgttggctctcttctgttgccaatca	2580
Qy	2581	 cagagacacaggcatttaataattaaacttatttatttaacaaagttagaagggaatccat	2640
Db	2581	 cagagacacaggcatttaataattaaacttatttatttaacaaagttagaagggaatccat	2640
Qy	2641	 tgtagctttctgtgtggtgtctaaattttgggtaggggtgggggatccccacaatca	2700
Db	2641	 tgtagctttctgtgtggtgtctaaattttgggtaggggtgggggatccccacaatca	2700
Qy	2701	 ggctccctgagatagctggttcattgggtgatcattggcagaattctctctctctggggt	2760
Db	2701	 ggctccctgagatagctggttcattgggtgatcattggcagaattctctctctctggggt	2760
Qy	2761	 ctggcccccacaaatgcctaaacccaggaccttgaaattctactcatcccaaatgataat	2820
Db	2761	 ctggcccccacaaatgcctaaacccaggaccttgaaattctactcatcccaaatgataat	2820
Qy	2821	 tccaaatgctgttacccaaggttaggggtgtgaaaggaaggttagagggtggggctcaggt	2880
Db	2821	 tccaaatgctgttacccaaggttaggggtgtgaaaggaaggttagagggtggggctcaggt	2880
Qy	2881	 ctcaacgggtctccctaacacccctctctcttggccagcctgggttccccccacttcca	2940
Db	2881	 ctcaacgggtctccctaacacccctctctcttggccagcctgggttccccccacttcca	2940
Qy	2941	 ctccccctactctctctaggactgggtgatgaaggcaactgccccaaatttccccctacc	3000
Db	2941	 ctccccctactctctctaggactgggtgatgaaggcaactgccccaaatttccccctacc	3000
Qy	3001	 cccaacttccccctaccacaaacttccccccagctcccaacccctgtttgagctact	3060
Db	3001	 cccaacttccccctaccacaaacttccccccagctcccaacccctgtttgagctact	3060
Qy	3061	 gcaggaccagaagcacaaagtgcgttttcccaagcctttgttccatctcagccccccaggt	3120

Db	3061	gcaggaccagaagcacaagtgoggtttcccaagcctttgttcacatctcagcccccagagt	3121
Qy	3121	atatctgtgcttgagggaatctcacacagaaactcaggagcacccctgacctgagctaaag	3180
Db	3121	atatctgtgcttgagggaatctcacacagaaactcaggagcacccctgacctgagctaaag	3180
Qy	3181	gaggtcttatctctcaggggggtttaagtgcggtttgcaataatgcgtctctattatt	3240
Db	3181	gaggtcttatctctcaggggggtttaagtgcggtttgcaataatgcgtctctattatt	3240
Qy	3241	tacgggggtgaatttttatactgtaagtgcagcaatcacagataaattgtttatggtgaca	3300
Db	3241	tacgggggtgaatttttatactgtaagtgcagcaatcacagataaattgtttatggtgaca	3300
Qy	3301	aaattaaagccttcttatgttttaaaaaaataaaaaaataaaaaaataaaaaa	3360
Db	3301	aaattaaagccttcttatgttttaaaaaaataaaaaaataaaaaaataaaaaa	3360
Qy	3361	aaaaaaaraaaaaaataaaaaaataaaaaaataaaaaaataaaaaa	3410
Db	3361	aaaaaaaraaaaaaataaaaaaataaaaaaataaaaaaataaaaaa	3410
RESULT	3		
AACT9473			
ID	AACT9473	standard; cDNA; 3410 BP.	
XX			
AC	AACT9473;		
DT	07-FEB-2001	(first entry)	
XX			
DE		cDNA sequence of human breast tumour clone P501S.	
XX			
KW		Human; breast tumour antigen; cytostatic; immunotherapy;	
KW		breast cancer; vaccine; ss.	
XX			
OS		Homo sapiens.	
PN		WO200061756-A2.	
XX			
PD		19-OCT-2000.	
XX			
PF		10-APR-2000; 2000WO-US09688.	
XX			
PR		09-APR-1999; 99US-0288950.	
PR		02-JUL-1999; 99US-0346327.	
PA		(CORI-) CORIXA CORP.	
XX			
PI		Reed SG, Xu J, Dillon DC;	
XX			
DR		WPI; 2000-638568/61.	
DR		P-PSDB; AAB28527.	
XX			
PT		A novel isolated polypeptide comprising an immunogenic portion of a	
PT		breast cancer protein useful in the detection and treatment of breast	
PT		cancer -	
XX			
PS		Claim 26; Page 91-92; 95pp; English.	
XX			
CC		The present sequence was isolated from a breast tumour cDNA library. I	
CC		is provided in a specification relating to compounds for immunotherapy	
CC		and diagnosis of breast cancer. Breast tumour antigens and the	
CC		polynucleotides that encode them may be used in the production of a	
CC		pharmaceutical composition to be used in the treatment of breast cancer	
CC		proliferated T cells and incubated antigen presenting cells are also	
CC		required. The polypeptides and polynucleotides may also be used to	
CC		produce a vaccine.	
XX			
SQ		Sequence 3410 BP; 667 A; 1014 C; 945 G; 783 T; 1 other;	

Query Match	Score 3409.6	DB 21	Length 3410
100.0%			

CC encoded by this sequence). An antibody which binds to an immunogenic
 CC portion of the prostate protein, and the method can be used to detect,
 CC monitor progression of, or treat prostate cancers. The antibody may
 CC also be conjugated to a therapeutic agent for use in therapy of prostate
 CC cancers.
 XX
 SQ Sequence 3410 BP; 667 A; 1014 C; 945 G; 783 T; 1 other;

Query Match 100.0%; Score 3409.6; DB 19; Length 3410;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ggaacacagcctgacgcgtgctcgcgtgacagccgcgcgcctcgccagatctga 60
 DB 1 ggaacacagcctgacgcgtgctcgcgtgacagccgcgcgcctcgccagatctga 60
 QY 61 gtgatgagcgtgtcccaactgaggtgcccacagcagcaggtgttgagcatgggtgag 120
 DB 61 gtgatgagcgtgtcccaactgaggtgcccacagcagcaggtgttgagcatgggtgag 120
 QY 121 aagctgacccgacacaaaggctggcagaaatggcgccctggtctattctaggcagtt 180
 DB 121 aagctgacccgacacaaaggctggcagaaatggcgccctggtctattctaggcagtt 180
 QY 181 ggcggcagcagagagagccgcagctcttgagcagagccgagacgaagcagttctg 240
 DB 181 ggcggcagcagagagagccgcagctcttgagcagagccgagacgaagcagttctg 240
 QY 241 gagtgcctgaacggccctgagccctacccgctgcccactatggtccagaggtgtg 300
 DB 241 gagtgcctgaacggccctgagccctacccgctgcccactatggtccagaggtgtg 300
 QY 301 ggtgagccgctgctgcgcagcagaaagccagctcttgatgtaacctgtaacctt 360
 DB 301 ggtgagccgctgctgcgcagcagaaagccagctcttgatgtaacctgtaacctt 360
 QY 361 tggcctgaggtgtgtttggccagcagcaccatgctgcccctctgctgtggaagt 420
 DB 361 tggcctgaggtgtgtttggccagcagcaccatgctgcccctctgctgtggaagt 420
 QY 421 gggggtagaggaagttcatgacctggtgctgggcattggtccagtgctggccctggt 480
 DB 421 gggggtagaggaagttcatgacctggtgctgggcattggtccagtgctggccctggt 480
 QY 481 ctgtgtccctctcagctcagccagtgaccactggcgtggacgtatggccgcgcgcg 540
 DB 481 ctgtgtccctctcagctcagccagtgaccactggcgtggacgtatggccgcgcgcg 540
 QY 541 gcccttcacttgggcactgctcttgggcactcctgctgagcctctttctatcccaaggc 600
 DB 541 gcccttcacttgggcactgctcttgggcactcctgctgagcctctttctatcccaaggc 600
 QY 601 cggctgctagcagggctgctgctgcgcagatccagcagccctgagctgacatgctcat 660
 DB 601 cggctgctagcagggctgctgctgcgcagatccagcagccctgagctgacatgctcat 660
 QY 661 cctggcggtgggctgctgactctgtggccaggtgtgttcaactccactgagggccct 720
 DB 661 cctggcggtgggctgctgactctgtggccaggtgtgttcaactccactgagggccct 720
 QY 721 gctctctgactcttcgggacccggaccactgtgcaggccctactctctctatgctctt 780
 DB 721 gctctctgactcttcgggacccggaccactgtgcaggccctactctctctatgctctt 780
 QY 781 catgatcagttcggggctgctgctgacctcctcctgctgacctgacctgagcagcag 840
 DB 781 catgatcagttcggggctgctgctgacctcctcctgctgacctgacctgagcagcag 840
 QY 841 tgccttgcccccctacctgggacccagaggaggtgctctcttggcctgctcaccctcat 900
 DB 841 tgccttgcccccctacctgggacccagaggaggtgctctcttggcctgctcaccctcat 900

QY 901 ctctctcaactcgctagcagccacactgctggtggtgagagcagcgtggccccac 960
 DB 901 ctctctcaactcgctagcagccacactgctggtggtgagagcagcgtggccccac 960
 QY 961 cgagccagcagaaggctgtcgcccccctctctgtcgccccactgtgtccatgcggggc 1020
 DB 961 cgagccagcagaaggctgtcgcccccctctctgtcgccccactgtgtccatgcggggc 1020
 QY 1021 cgcgttggtttccgaaactggcgccctgcttccccgctcacacagctgtgtgcgcg 1080
 DB 1021 cgcgttggtttccgaaactggcgccctgcttccccgctcacacagctgtgtgcgcg 1080
 QY 1081 catgccccacacctgcgcgcgtctcttctgtggtgagctgctgagtggaatcactcat 1140
 DB 1081 catgccccacacctgcgcgcgtctcttctgtggtgagctgctgagtggaatcactcat 1140
 QY 1141 gacctcaactgttttaacaggatttctggcgagggtgttaccagggtgtgccag 1200
 DB 1141 gacctcaactgttttaacaggatttctggcgagggtgttaccagggtgtgccag 1200
 QY 1201 agctgagccggcaccagagcccgagacactatgatgaagcgcttcggatggcagcct 1260
 DB 1201 agctgagccggcaccagagcccgagacactatgatgaagcgcttcggatggcagcct 1260
 QY 1261 gggggttctcgcagtgcccatctccctggttctctctctctctctctctctctct 1320
 DB 1261 gggggttctcgcagtgcccatctccctggttctctctctctctctctctctctct 1320
 QY 1321 gcaagcttcggcactcgagcagctatttggccagtggtgagcttccctatgctgc 1380
 DB 1321 gcaagcttcggcactcgagcagctatttggccagtggtgagcttccctatgctgc 1380
 QY 1381 cgtgtccacatgctgtcccacagtggtggtggtgagcagcttcagcgcctcaccgg 1440
 DB 1381 cgtgtccacatgctgtcccacagtggtggtggtgagcagcttcagcgcctcaccgg 1440
 QY 1441 gttcaacttcagcctgcagatcctgcctcacacactggcctcctctctacacaggga 1500
 DB 1441 gttcaacttcagcctgcagatcctgcctcacacactggcctcctctctacacaggga 1500
 QY 1501 gaagcaggtgttctcctcccaataccagaggggacactggaggtgctagcagtgagacag 1560
 DB 1501 gaagcaggtgttctcctcccaataccagaggggacactggaggtgctagcagtgagacag 1560
 QY 1561 cctgatgacagcttctcctcagggccctaaagcctgagctcctctcctaatggacagt 1620
 DB 1561 cctgatgacagcttctcctcagggccctaaagcctgagctcctctcctaatggacagt 1620
 QY 1621 ggtgtcggagcagtggtgctcctcctcctcctcctcctcctcctcctcctcctcctc 1680
 DB 1621 ggtgtcggagcagtggtgctcctcctcctcctcctcctcctcctcctcctcctcctc 1680
 QY 1681 tgatgtcctcgtacgtgtggtggtggtgagccacagcagcaggtgtgttcggggcgg 1740
 DB 1681 tgatgtcctcgtacgtgtggtggtggtgagccacagcagcaggtgtgttcggggcgg 1740
 QY 1741 gggcatctcctcgtggaactcgtccatcctggtatggtcctcctcctcctcctcctcctc 1800
 DB 1741 gggcatctcgtggaactcgtccatcctggtatggtcctcctcctcctcctcctcctc 1800
 QY 1801 atccctgtttatgggtcctcatttccagctcagcagctcgtcactgcctatgtgtc 1860
 DB 1801 atccctgtttatgggtcctcatttccagctcagcagctcgtcactgcctatgtgtc 1860
 QY 1861 tgcgcagcgtgggtgtggtgcctatttactttgtacacaggtagttatttacaagag 1920
 DB 1861 tgcgcagcgtgggtgtggtgcctatttactttgtacacaggtagttatttacaagag 1920
 QY 1921 cgaacttgccaaatactcagcgttagaaaaacttccagcacattgggggtgagggcctcct 1980
 DB 1921 cgaacttgccaaatactcagcgttagaaaaacttccagcacattgggggtgagggcctcct 1980
 QY 1981 cactgggtcccagctcccgcctcctgttagccccctggggtgcggggcgtggcgccagt 2040

QY	1921	cgacttggccaaatactcagctcagctagataaaactccacgacacttggggctggagggcctgcct	1981
DB	1921	cgacttggccaaatactcagctagataaaactccacgacacttggggctggagggcctgcct	1981
QY	1981	cactgggtcccagctcccgcctcctgttagccccatgggctgcgaggtcggcgccagt	2041
DB	1981	cactgggtcccagctcccgcctcctgttagccccatgggctgcgaggtcggcgccagt	2041
QY	2041	ttctgttgtgccaaagttaattggctctctgtctgcacccctgtgctgctgaagttgcgt	2101
DB	2041	ttctgttgtgccaaagttaattggctctctgtctgcacccctgtgctgctgaagttgcgt	2101
QY	2101	gtctcacagctgggggctggggcgtccctctctctctctctctctccacgtctctaggctgcctg	2161
DB	2101	gtctcacagctgggggctggggcgtccctctctctctctctctctccacgtctctaggctgcctg	2161
QY	2161	actggagccttccaaaggggtttcagctctgacttatacaggaggagccagaaggtctcc	2221
DB	2161	actggagccttccaaaggggtttcagctctgacttatacaggaggagccagaaggtctcc	2221
QY	2221	atgcactggaatgcggggactctgaggtggattaccacagctcagggttaaacagtgc	2281
DB	2221	atgcactggaatgcggggactctgaggtggattaccacagctcagggttaaacagtgc	2281
QY	2281	ctctagttagacacacactagagaagggtttttgggagctgaataaaactcagtcacctg	2341
DB	2281	ctctagttagacacacactagagaagggtttttgggagctgaataaaactcagtcacctg	2341
QY	2341	gtttcccatctctaaagcccttaacctgcagcttcgttttaattagctcttgatggagg	2401
DB	2341	gtttcccatctctaaagcccttaacctgcagcttcgttttaattagctcttgatggagg	2401
QY	2401	ttcttaggatgaacactcctccatgggatttgaacatatgacttattgtaggggaga	2461
DB	2401	ttcttaggatgaacactcctccatgggatttgaacatatgacttattgtaggggaga	2461
QY	2461	gtctgaggggcaacacagaacacagctccctcagccacagcagctgcttttgcct	2521
DB	2461	gtctgaggggcaacacagaacacagctccctcagccacagcagctgcttttgcct	2521
QY	2521	gattcccccctcttaacctttatcaggatgctgcctgttgcttctctctgttcccatca	2581
DB	2521	gattcccccctcttaacctttatcaggatgctgcctgttgcttctctctgttcccatca	2581
QY	2581	cagagacagggcatttaaatattaaactattatttaaacaagtagaagggaatccat	2641
DB	2581	cagagacagggcatttaaatattaaactattatttaaacaagtagaagggaatccat	2641
QY	2641	tgctagcttttctgttgttggtcttaatttgggttagggctgggggatccccacaatca	2701
DB	2641	tgctagcttttctgttgttggtcttaatttgggttagggctgggggatccccacaatca	2701
QY	2701	ggtccctctgagatagctggtctcatgtggctgatacttgccagaaattctctctctggggt	2761
DB	2701	ggtccctctgagatagctggtctcatgtggctgatacttgccagaaattctctctctggggt	2761
QY	2761	ctggccccccaaatgcctaaaccaggaaccttgggaattctactatccccaaatgataat	2821
DB	2761	ctggccccccaaatgcctaaaccaggaaccttgggaattctactatccccaaatgataat	2821
QY	2821	tccaaatgctgttacccaaggttaggggtgtgaaggaaggttagagggctggggcttcaggt	2881
DB	2821	tccaaatgctgttacccaaggttaggggtgtgaaggaaggttagagggctggggcttcaggt	2881
QY	2881	ctcaagggcttccctaaaccaaccctctctcttgcccagactgggttccccccacttcca	2941
DB	2881	ctcaagggcttccctaaaccaaccctctctcttgcccagactgggttccccccacttcca	2941
QY	2941	ctccccctactctctctaggactgggtctgataaggagcactgccccaaatttccccctacc	3001
DB	2941	ctccccctactctctctaggactgggtctgataaggagcactgccccaaatttccccctacc	3001
QY	3001	cccaactttcccctacccccacattttcccacacagcttcccaacccctatttggagctact	3061

Db	3001	cccaactttccctaccctcccaactttcccccacagctcccaacccctgtttgagctact	3060
Qy	3061	gcaggaccagaagcacaaagtgcggtttcccaagcctttgccatctcagccccagagt	3120
Db	3061	gcaggaccagaagcacaaagtgcggtttcccaagcctttgccatctcagccccagagt	3120
Qy	3121	atatctgtctgtgggaatctcacacagaaaactcaggagacccccctgcctgagctaaag	3180
Db	3121	atatctgtctgtgggaatctcacacagaaaactcaggagacccccctgcctgagctaaag	3180
Qy	3181	gaggtcttatctcaggggggtttaagtgcgtttgcaataatgctcttatttatt	3240
Db	3181	gaggtcttatctcaggggggtttaagtgcgtttgcaataatgctcttatttatt	3240
Qy	3241	tagcggggtgaatatatttatctgaatgagcaatcagagataaagttttatggtgaca	3300
Db	3241	tagcggggtgaatatatttatctgaatgagcaatcagagataaagttttatggtgaca	3300
Qy	3301	aaatctaaaggcttcttatgttttaaaaaaataaaaaaataaaaaaataaaaaa	3360
Db	3301	aaatctaaaggcttcttatgttttaaaaaaataaaaaaataaaaaaataaaaaa	3360
Qy	3361	aaaaaaaraaaaaaataaaaaaataaaaaaataaaaaaataaaaaa	3410
Db	3361	aaaaaaaraaaaaaataaaaaaataaaaaaataaaaaaataaaaaa	3410
RESULT 2			
ID	AAV58586 standard; cDNA; 3410 BP.		
XX	AC	AAV58586;	
XX	DF	08-DEC-1998 (first entry)	
XX	DE	Prostate tumour specific gene clone Ll-12.	
XX	KW	Prostate tumour specific gene; human; prostate cancer; detection;	
XX	KW	therapy; ss.	
XX	OS	Homo sapiens.	
XX	FH	Key	Location/Qualifiers
XX	FT	CDS	284..1945
XX	FT		/*tag= a
XX	PN	W09837418-A2.	
XX	PD	27-AUG-1998.	
XX	PF	25-FEB-1998; 98WO-US03690.	
XX	PR	09-FEB-1998; 98US-0904809.	
XX	PR	25-FEB-1997; 97US-0806596.	
XX	PR	01-AUG-1997; 97US-0904809.	
XX	PA	(CORI-) CORIXA CORP.	
XX	PI	Dillon DC, Xu J;	
XX	DR	WPI; 1998-480805/41.	
XX	DR	P-PSDB; AAW69385.	
XX	PT	Novel human prostate specific tumour protein and fragments - useful	
XX	PT	for detecting and treating prostate cancers	
XX	PS	Claim 1; Page 84-85; 141pp; English.	
XX	CC	This sequence represents a human prostate tumour specific gene, and	
XX	CC	be used in the method of the invention. The method is for detecting	
XX	CC	prostate cancer comprises contacting a biological sample with an agent	
XX	CC	able to bind an immunogenic portion of a prostate protein such as	

GenCore version 4.5
Copyright (c) 1993 - 2000 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: July 11, 2002, 22:13:36 ; Search time 356.12 seconds
(without alignments)
16440.184 Million cell updates/sec

Title: US-09-605-783A-110
Perfect score: 3410
Sequence: 1 ggaacacagctgcagcgc.....aaaaataaaaaaaaaa 3410

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1736436 seqs, 858457221 residues

Total number of hits satisfying chosen parameters: 3472872

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : N_Geneseq_032802.*
1: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1980.DAT.*
2: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1981.DAT.*
3: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1982.DAT.*
4: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1983.DAT.*
5: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1984.DAT.*
6: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1985.DAT.*
7: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1986.DAT.*
8: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1987.DAT.*
9: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1988.DAT.*
10: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1989.DAT.*
11: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1990.DAT.*
12: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1991.DAT.*
13: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1992.DAT.*
14: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1993.DAT.*
15: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1994.DAT.*
16: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1995.DAT.*
17: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1996.DAT.*
18: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1997.DAT.*
19: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1998.DAT.*
20: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1999.DAT.*
21: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA2000.DAT.*
22: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA2001A.DAT.*
23: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT.*
24: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA2002.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3409.6	100.0	3410	19 AAV61201	Full length cDNA s
2	3409.6	100.0	3410	19 AAV58586	Prostate tumour sp
3	3409.6	100.0	3410	21 AAC79473	cDNA sequence of h
4	3409.6	100.0	3410	22 AAS63557	Human prostate cDN
5	3409.6	100.0	3410	22 AAS10108	Human prostate tum
6	3409.6	100.0	3410	22 AAH93465	Human prostate-spe
7	3409.6	100.0	3410	22 AAH84779	Human prostate-spe
8	3409.6	100.0	3410	22 AAH02530	Prostate tumour an
9	3408	99.9	3410	21 AAA06349	Human immunogenic

10	3292.4	96.6	3320	24 AAS14962	DNA encoding human
11	2585.4	75.8	4034	22 AAS64040	Human prostate cDNA
12	2585.4	75.8	4034	22 AAH93868	P53S cDNA splice
13	2196.4	64.4	2904	22 AAS64039	Human prostate cDNA
14	2196.4	64.4	2904	22 AAH93867	P53S cDNA splice
15	2142.8	62.8	4894	22 AAS64038	Human prostate cDNA
16	2142.8	62.8	4894	22 AAH93866	P53S cDNA splice
17	2136.8	62.7	3878	22 AAD05230	Human secreted pro
18	2136.4	62.7	2152	20 AAV71181	Consensus sequence
19	2114.8	62.0	2143	20 AAV71180	Clone 1711346H, t
20	2065.4	60.6	2462	21 AAZ45677	cDNA sequence of a
21	1915	56.2	2133	21 AAC64928	Human prostate-rel
22	1915	56.2	2133	21 AAS07155	Prostate gene PS10
23	1899.8	55.7	2124	21 AAC64927	Human prostate-rel
24	1899.8	55.7	2124	21 AAS07601	Prostate gene PS10
25	1815.8	53.2	6976	22 AAS64041	Human prostate cDNA
26	1815.8	53.2	6976	22 AAH93869	P53S cDNA splice
27	925.2	27.1	1019	22 AAD05264	Human secreted pro
28	794.6	23.3	1203	22 AAS64153	Human /M. tubercul
29	794.6	23.3	1203	22 AAH93917	Ra12-P5015-E2 cons
30	673.4	19.7	789	19 AAV61144	3' cDNA sequence o
31	673.4	19.7	789	19 AAV58487	3' fragment of pro
32	673.4	19.7	789	21 AAA06250	Human immunogenic
33	673.4	19.7	789	22 AAS64358	Human prostate cDN
34	673.4	19.7	789	22 AAS10009	Human prostate tum
35	673.4	19.7	789	22 AAH93366	Human prostate-spe
36	673.4	19.7	789	22 AAH84680	Human prostate-spe
37	673.4	19.7	789	22 AAH02431	Prostate tumour an
38	603	17.7	772	19 AAV61145	5' cDNA sequence o
39	603	17.7	772	19 AAV58488	5' fragment of pro
40	603	17.7	772	21 AAA06251	Human immunogenic
41	603	17.7	772	22 AAS63459	Human prostate cDN
42	603	17.7	772	22 AAS10010	Human prostate tum
43	603	17.7	772	22 AAH93367	Human prostate-spe
44	603	17.7	772	22 AAH84681	Human prostate-spe
45	603	17.7	772	22 AAH02432	Prostate tumour an

ALIGNMENTS

RESULT 1
ID AAV61201 standard; cDNA; 3410 BP.
XX AAV61201;
AC AAV61201;
XX 06-JAN-1999 (first entry)
DT Full length cDNA sequence of prostate tumour clone L1-12.
XX Prostate; cancer; tumour; vaccine; immunogen; clone; ss.
OS Homo sapiens.
XX WO9837093-A2.
XX PD 27-AUG-1998.
XX 25-FEB-1998; 98WO-US03492.
XX 09-FEB-1998; 98US-0020956.
PR 25-FEB-1997; 97US-0806099.
PR 01-AUG-1997; 97US-0904804.
XX (CORI-) CORIXA CORP.
XX Dillon DC, Xu J;
XX WPI; 1998-609886/51.
XX P-PSDB; AAW71869.
XX Polypeptides comprising immunogenic portions of prostate proteins -

QY 2267 ggtaaagctagcctcctagttgagacacacactagagaagggtttttgggagctgaata 2326
 |||||
 Db 61 GGTAAACAGCTAGCCTCCTAGTTGAGACACACCTAGAGAAGSGTTTTTGGGAGCTGAATA 120
 |||||
 QY 2327 aactcagtcacctgggtttcccatctctaaagcccttaaacctgcagcttcggtttaatgtag 2386
 |||||
 Db 121 AACTCAGTCACCTGGTTCCTCAAGCCCTTAACTGCAGCTTCGTTTAAATGTAG 180
 |||||
 QY 2387 ctcttgcatgggagtttctagatgaacactctcctcctcctggaatttgaacatatg--act 2444
 |||||
 Db 181 CTCCTGCATGGGAGTTTCTAGGATGAACACTCTCCATGGGATTTGAACATATGAAGT 240
 |||||
 QY 2445 tatttgtaggggaagagtcctgaggggcaacacacagaccaggtccctcagccacaca 2504
 |||||
 Db 241 TATTTGTAGGGGAAGAGTCCTGAGGGGCAACACACAAGAACCCAGGTCCCTCAGCCACACA 300
 |||||
 QY 2505 gaactgtcttttgcgtgatccacccccctcttaccttt 2542
 |||||
 Db 301 GCACGTCTCTTTTGTGATCCANCCCCCTCTTACTTTT 338
 |||||

Search completed: July 12, 2002, 00:09:18
 Job time: 7002 sec

QY	2207	gccaaagggctccatgcactgaaatgcgggaaactctgcagttggaattaccaggctcag	2266
Db	1	gccaaagggctccatgcactgaaatgcgggaaactctgcagttggaattaccaggctcag	60
QY	2267	ggftaaacagctagccctcctagttgagacacacactagaaagggtttttggagctgaata	2326
Db	61	ggftaaacagctagccctcctagttgagacacacactagaaagggtttttggagctgaata	120
QY	2327	aactcagtcacctggtttcccatctctaaagcccttaacctgcagcttcgttttaattag	2386
Db	121	aactcagtcacctggtttcccatctctaaagcccttaacctgcagcttcgttttaattag	180
QY	2387	ctcttcgaaggaggttctcaggatgaacacactcctccatggatttgaacatatg--act	2444
Db	181	ctcttcgatggaggatttctaggatgaacacactcctccatggatttgaacatatgaaagt	240
QY	2445	tatttgtagggaagaagtctctcagggggaacacacaaagaacacaggtccctccagccaca	2504
Db	241	taatttgtagggaagaagtctctcagggggaacacacaaagaacacaggtccctccagccaca	300
QY	2505	gcactgtctttttgtgatccaccacccctcttaaccttt	2542

ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/020,956
FILING DATE: 09-FEB-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Mak1, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.427C2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 772 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
OS-09-020-956-11

Query Match 17.7%: Score 603; DB 4; Length 772;

	Query: caam... Best Local Similarity 91.8%; Pred. No. 6.7e-111; Indels 11; Gaps Matches 675; Conservative 0; Mismatches 49;	
Qy	1961 ttggggtgagaggctgcctcactgagggtccacagctccccgcctct-----gttagcccca	2015
Db	735 TNGGGTGGNGGCGCTGCCTNAATTGGGTCCANGTTNCCCNGNTTCCTGTTAAACCCCN	676
Qy	2016 tggggctcgccgggctggccgcc---agtcttgtctgcaaaataatgtgcctct-	2071
Db	675 TNGGGTGCCGGGGTGTCCCCCNCAGTTTTGTGTGGCCAAGTAAGTGGTTTTTT	616
Qy	2072 gctgcacccttgctgctgaggtgcgtagctgcacagctggggcctggggcgctcccct	2131
Db	615 GCTGCCACCCGTGCTGTTGAGGTSCGTAGNTGCACAGCTGGGGGNTGGGGCGTCTCTTT	556
Qy	2132 cctctctcccagtccttagggctgctgaactggaggccttccaaaggggtttcagtcgt	2191
Db	555 CTTTTTCCCCAGTTNTTAGGGCTGCCGTGACTGGAGNCTTCCAAGGGGGTTTTCAGTCNG	496
Qy	2192 gacctatacagggagggccagaagggctccatgcactggaatgcgggggactctgcaggtgg	2251
Db	495 GACTATACAGGGAGGCCAGAAGGGTTCCATGCACTGGAAATCGGGGACTCTGCAGGTGG	436
Qy	2252 attaccaggctcagggttaacagtagcctcctcctagttagacacacactagagaaggggt	2311
Db	435 ATTACCAGGCTACGGGTTAACAGTAGCCTCTAGTTGAGACACACCTAGAGAAGGGTT	376
Qy	2312 ttgggagctgaataaacctcagtcaccctgggttcccattcttaagcccttaacctgcag	2371
Db	375 TTGGGAGCTGAATAAATCATGTCACCTACCTGTTCCATCTNTAAGCCCTTPAACCTGCAG	316
Qy	2372 ctctggttaaagttagctcttgcattgggagtttctaggatgaacaactcctccatggatt	2431
Db	315 CTTCGTTTAATGTAGCTCTTGTCATGGGAGTTTCTAGGATGAACAACCTCCTCCATGGGATT	256
Qy	2432 tgaacataig--actattttaggggaagctcctcagggccacacacagaaccagg	2489
Db	255 TGAACATATGAAGAAGTATTTTGTAGGGGAAGTCTCTGAGGGGGCAACACACAAGAACGAG	196
Qy	2490 tccccctcaqccacagcactgctctttttgtgatccacccccctcttaccttttatcagg	2549

Db	195	TC CCTCAGCCACACAGCACTGCTTTTTCGTCATCCACCCCTCTTACCTTTTATCAGG	136
Qy	2550	atgtggccctgttggctctctgttgcacacagagacacagggcatttaaatatttaact	2609
Db	135	ATGTGGCCTGTTGGTCCTTCTGTGTCATCAGACAGACAGGCACTTAAATATTTAACT	76
Qy	2610	tatttatttaacaaagtaagaagggaatccattgtctagctttctctgtgtgtgtcttaata	2659
Db	75	TATTATTATTAACAAGTAGAAGGAATCATTGCTAGCTTTTCTGTGTGTGGTGCTTAATA	16
Qy	2670	tttgggttagggtaggg	2684
Db	15	TTTGGGTAGGTGGG	1
RESULT 12			
US-09-030-607-11/c			
; Sequence 11, Application US/09030607			
; Patent No. 6262245			
; GENERAL INFORMATION:			
; APPLICANT: Xu, Jiangchun			
; APPLICANT: Dillon, Davin C.			
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND			
; NUMBER OF SEQUENCES: 224			
; CORRESPONDENCE ADDRESS:			
; ADDRESSEE: SEED and BERRY LLP			
; STREET: 6300 Columbia Center, 701 Fifth Avenue			
; CITY: Seattle			
; STATE: WA			
; COUNTRY: USA			
; ZIP: 98104			
; COMPUTER READABLE FORM:			
; MEDIUM TYPE: Floppy disk			
; COMPUTER: IBM PC compatible			
; OPERATING SYSTEM: PC-DOS/MS-DOS			
; SOFTWARE: PatentIn Release #1.0, Version #1.30			
; CURRENT APPLICATION DATA:			
; APPLICATION NUMBER: US/09/030.607			
; FILING DATE: 25-FEB-1998			
; CLASSIFICATION:			
; ATTORNEY/AGENT INFORMATION:			
; NAME: Maki, David J.			
; REGISTRATION NUMBER: 31,392			
; REFERENCE/DOCKET NUMBER: 210121.427C3			
; TELECOMMUNICATION INFORMATION:			
; TELEPHONE: (206) 622-4900			
; TELEFAX: (206) 682-6031			
; INFORMATION FOR SEQ ID NO: 11:			
; SEQUENCE CHARACTERISTICS:			
; LENGTH: 772 base pairs			
; TYPE: nucleic acid			
; STRANDEDNESS: single			
; TOPOLOGY: linear			
; MOLECULE TYPE: cdna			
; US-09-030-607-11			

	Query Match	17.7%	Score 603;	DB 4;	Length 772;	
	Best Local Similarity	91.8%;	Pred. No.	6.7e-111;		
	Matches	675;	Conservative	0;	Mismatches	49; Indels
	Gaps				11;	
Qy	1961	tggggttgaggcctgcctcactgggtccagctccccgcctct-----gttagcccga	2015			
Dd	735	TNGGGGTGNGGGCGCTGCCTNAATTGGGTTCCANGTTCGCCGNVTCTGTATACCCCNCN	676			
Qy	2016	tggggctgccgggctggcgcc---agtttcttgttgcgccaaagaatattggctctct-	2071			
Dd	675	TNGGGGTGCCGGGTGCCCCCNCAGTTTTTGTTGTGCCAAGTAAGAATGGTTTTTT	616			
Qy	2072	gctgcacacctgtgctgctgaggtgcgtagctgcacagctgggggctggggcgctccctct	2131			
bh	615	CCTGCACCCTGCTGTTGAGTGCGTPAGNTGCACAGCTGGGNTGGGGCGTCTTTTT	556			

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/020,956
FILING DATE: 09-FEB-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.427C2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 789 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cdna
US-09-020-956-10

Query Match 19.7%; Score 673.4; DB 4; Length 789;

Best Local Similarity 94.2%; Pred. No. 7.7e-125;

Matches 745; Conservative 0; Mismatches 40; Indels 6; Gaps 5;

QY 1341 cagtcatttgccagtggtgagcgttccctgtgctggtgcgcagtgccacatgctgtccc 1400
DB 1 CAGTCATNTGGCCAGTGGCAGCTTCCCTGTGGTGGCGGTGCCAGTGGCTGTCCC 60
QY 1401 acagtggtggtggtgagcgttccctgtgctggtgcgcagtggttcacgttccagcctgc 1460
DB 61 ACAGTGTGGCGGTGGTGACAGCTTACGCCGCCCTCAGCCGGGTTACCTTCTCAGCCCTGC 120
QY 1461 agatcctgcccctacacactggcctccctccctacacacggggagagcaggtgttccctgccca 1520
DB 121 AGATCTCTGCCCTACACTGGCTCCCTCTTACCACCCGGGAGAGCAGGTGTCTCTGCCCA 180
QY 1521 aatacagagggagactggagtgctagcagtgagcagtgagcagcctgatcaccagcttctcgc 1580
DB 181 AATACCGAGGGAGACTGGAGGTGCTAGCAGTGTGAGGACGCCCTGATACCCAGCTTCTCTGC 240
QY 1581 caggccctaagcgtgagctccctccctccctccctccctccctccctccctccctccctccctcc 1640
DB 241 CAGGCCCTAAGCTGGAGCTCCCTCTCCCTAATGGACACGTGGGTGCTGGAGGACGTGGCC 300
QY 1641 tgcctccacctccaccccgctgtgcgggctctgcctgtgatgtctccgtacgtgtgg 1700
DB 301 TGCTCCACCTCCACCCGCGCTGTGGGGCCCTTGCCCTGTGATGTCTCCGTACGTGTGG 360
QY 1701 tgggtggtgagccacagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1760
DB 361 TGGTGGGTGAGCCACCCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 420
QY 1761 ccatcctggatgctgcttccctgctgctccaggtggtccctccctccctccctccctccctccct 1820
DB 421 CCATCTCTGGATAGTG-CTTCTCTCTGTGCCANGTGGGCCCATCCCTGTTTATGGGCTCCA 479
QY 1821 ttgtccagctcagcagctgtgctcactgcttatgtgtgtgtgcgcagcagcagcagcagcagc 1880
DB 480 TTGTCCAGCTCAGCCAGTGTGTACATGCCCTATATGTGTGTGTGTGTGTGTGTGTGTGTGTGT 539
QY 1881 tcgccattacttctgtacacaggttagtatttgacaagcagcagcagcagcagcagcagcagcagc 1940
DB 540 TC-CCATTACTTGTGTACACAGTANTATTGACAGAGACGANTGGCCCAATACTACAG 598
QY 1941 cgtgaaaaactccagca--cattgggtggagggcgtcctcactgggtcccagctccc 1998
DB 599 CGTAAAAAATTCAGCAACATTGGGGGTGGAAGGCTGCTCCTCAGTGGGT-CCAACCTCC 657
QY 1999 cgtcctctgttagcccatggggtgcgggctgagcagcagcagcagcagcagcagcagcagcagc 2058
|||||

DB 658 CGTCTCTGTTAAACCCCATGGGGGTGCGGGTGTGCCGCCCAATTTCTGTTGTGTCCAAANT 717
QY 2059 aatgtgctctctgctgctccaccctgtgct-9ctagagtgctgtagctgcacagctgggggc 2117
|||||
DB 718 NATGTGGCTCTCTGCTGCCACCTGTGCTGGCTGAAGTGCNTACNGCNCANCTNGGGGG 777
QY 2118 tgggggctccc 2128
|||||
DB 778 TNGGGNGTTC 788

RESULT 9

US-09-030-607-10

Sequence 10, Application US/09030607

Patent No. 6262245

GENERAL INFORMATION:

APPLICANT: Xu, Jiangchun

APPLICANT: Dillon, Davin C.

TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METH

NUMBER OF SEQUENCES: 224

CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED and BERRY LLP

STREET: 6300 Columbia Center, 701 Fifth Avenue

CITY: Seattle

STATE: WA

COUNTRY: USA

ZIP: 98104

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/030,607

FILING DATE: 25-FEB-1998

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Maki, David J.

REGISTRATION NUMBER: 31,392

REFERENCE/DOCKET NUMBER: 210121.427C3

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900

TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 10:

SEQUENCE CHARACTERISTICS:

LENGTH: 789 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cdna

US-09-030-607-10

Query Match 19.7%; Score 673.4; DB 4; Length 789;

Best Local Similarity 94.2%; Pred. No. 7.7e-125;

Matches 745; Conservative 0; Mismatches 40; Indels 6; Gaps 5;

QY 1341 cagtcatttgccagtggtgagcgttccctgtgctggtgcgcagtggttcacagcagcagcagcagc 1400
DB 1 CAGTCATNTGGCCAGTGGCAGCTTCCCTGTGGTGGCGGTGCCAGTGGCTGTCCC 60
QY 1401 acagtggtggtggtgagcgttccctgtgctggtgcgcagcagcagcagcagcagcagcagcagc 1460
DB 61 ACAGTGTGGCGGTGGTGACAGCTTACGCCGCCCTCAGCCGGGTTACCTTCTCAGCCCTGC 120
QY 1461 agatcctgcccctacacactggcctccctccctacacacggggagagcaggtgttccctgccca 1520
DB 121 AGATCTCTGCCCTACACTGGCTTCCCTTACCACCCGGGAGAGCAGGTGTCTCTGCCCA 180
QY 1521 aatacagagggagcagctggaggtgctagcagtgagcagcagcagcagcagcagcagcagcagc 1580
DB 181 AATACCGAGGGAGACTGGAGGTGCTAGCAGTGTGAGGAGACGCTTGATGACACGCTTCTCTGC 240

Db 241 CAGCGCCCTCAGCGGTTACCTTCTCAGCGCTGAGATCTCCCTACACACTGCGCT 300
Qy 1485 ccctctaccacccgggaagcagggtgtctctgcccacaaataaccgagggaacactggaagtg 1544
Db 301 CCCCTACACACCGGGAAGCAGGTGTTCTGCCCCAAATACCGAGGGGACACTGGAGGTG 360
Qy 1545 ctacagtgagagacagcctgatcaccagctctctgcccaggccctaaagccctggagctccct 1604
Db 361 CTACAGTGAAGACAGCCTGATGACACAGTCTCTGCCAGGCCCTAAGCCCTGGAGTCCCT 420
Qy 1605 tccctaataagacacgtggtgtctgagagcagtggtgctgctccacccctccaccocgcgtct 1664
Db 421 TCCCTAATGACACGTGGGTGCTGGAGGCAGTGGCTCTGCCACCTCCACCTCCACCGCGCT 480
Qy 1665 gcggggcctcctcgtgtagtctccctacagtgatggtggtgagcagccacagagccca 1724
Db 481 GCGGGGCTCTGCGCTGTGATGTCTCCGTAGTGTGGTGGTGGTGGTGGTGGTGGTGGTGG 540
Qy 1725 ggggtgtccgggcggggcagctgctgctgacccctgcacccctgcatctgtagtgccttcctgc 1784
Db 541 GGGTGGTTCGGGGCCGGGCATCTGCTGGACCTCGGCATCTCGATAGTGCCTTCCTGCG 600
Qy 1785 tgtcccggtggccccaatccctgtttatgggtcccatgttccagctcagccagctcgtca 1844
Db 601 TGTCCAGGTGGCCCCATCCCTGTTTATGGCTCCATTTGTCCAGCTCAGCCAGTCTGTCA 660
Qy 1845 ctgctatatggtgtctgcgcagcagcctggtgtgctgcgcatttactttgtgtacacagg 1904
Db 661 CTGCTATATGTTGTCTGCGCAGCCTGGGTCTGGTCTGGCTGGCTGGCTGGCTGGCTGGCT 720
Qy 1905 tagtattgacaagagcagcttgcccaataactcagcgtgagaaactccctcagcacaattgg 1964
Db 721 TAGTATTTGACAGAGCGACTTGGCCAAATATCTCAGCGTAGAAACTTCCAGCACATTGG 780
Qy 1965 ggtggaggcctgctcactggttccagctcccccgtctctgtttagcccaatggggtgc 2024
Db 781 GGTGGAGGGCTGCTCCTCAGTGGTCCAGCTCCCGCTCCTGTTAGCCCCATGGGGGTGC 840
Qy 2025 cggtgtgcccagcttctgtgtgtccaaagttaagtgtgctctgtgtccacccctgt 2084
Db 841 CGGGCTGGCCCGCAGTTCTGTGCTGCCAAAGTAATGTGGCTCTCTGCTGCCACCTGT 900
Qy 2085 gctgtgaggtgcgtagctgcacagctgggggtgggggtgctctctctctctctctctctcc 2144
Db 901 GCTGTGAGGTGCGTAGCTGCACAGCTGGGGGTGGGGGTGCTCCTCTCTCTCCCGAG 960
Qy 2145 tctctaggtgctgactgagccttccaaagggtttcagctcgtgacttatcacagg 2204
Db 961 TCTCTAGGGCTGCTGACTGAGGCGCTTCCAGGGGGTTCAGTCTGGACTTATACAGGG 1020
Qy 2205 aggcagaagggtccatgcactggaatgcgggggactctgcagctgagttaccacagctc 2264
Db 1021 AGGCCAGAAGGGTCCATGCACCTGGAATGC -GGGACTCTGCGAGTGGATTACCCAGGCTC 1079
Qy 2265 aggttaacagctagcctcctagttagacacacactagagaagggtttttgggagctgaa 2324
Db 1080 AGGTTAAACACTAGCTCCTCTAGTTGAGACACACTAGAGAAGGGTTTTGGGAGCTGAA 1139
Qy 2325 taaactcagtcacgtggtttcccatctctctcagcccttaacctgcagctctcgttttaagt 2384
Db 1140 TAACTCAGTCACTGGTTTCCCATCTCTAGCCCCCTTAACCTGCAGCTTCTGTTAATGT 1199
Qy 2385 agctcttgatggagttcttagatgaacacactccctccatgggatttgaacatatg--a 2442
Db 1200 AGCTCTTCATGGGAGTTCTTAGGATGAACACTCCCTCCATGGGATTTGAACATATGAA 1259
Qy 2443 cttatttgaggggaagagtcctcagggggaacacacagaaacacaggtccctcagccca 2502
Db 1260 GTTATTTGAGGGGAAGAGTCTCAGGGGCAACACAGAAGACAGGTCCCTCAGGCCCA 1319
Qy 2503 cagcactgtctttgtgtatcccccctcttacccttttatcagatgtggcctgtg 2562
Db 1320 CAGCACTCTCTTTGTGTATCCACCCCTCTTACCTTTTATCAGGATGTGGCTGTG 1379

Qy 2563 gtctcttctgttgccatcacagagacagcagcatttaataattattattatttaaca 2622
Db 1380 GTCTCTCTGTGTGCATCACAGACACAGCAATTAATAATTTAACTTATTTATTAAACA 1439
Qy 2623 aagtagaagggaatccattgtctgtttctgtgtgtgtgtcttaatttgggttaggggtg 2682
Db 1440 AAGTAGAAGGGAATCCATTGCTAGCTTTTCTGTGTGTGTGTGTCTAAATTTTGGGTAGGGTG 1499
Qy 2683 ggggatcccaacaatacagctccctgagatagctgctgattggtgctgacattgcccaga 2742
Db 1500 GGGGATCCCCCAAAATCAGGTCCCTGAGATAGCTGTGTCATTTGGGCTGATCATTTGCCAGA 1559
Qy 2743 atcttctctcctgggtgtctggcccccaaaaatgcctaaacccagggaaccttggaaattcta 2802
Db 1560 ATCTCTCTCTCTGGGTCTGGCCCCCAAAATGCTTAACCCAGGACCTTGGAAATTTCTA 1619
Qy 2803 ctatcccaaatgataattccaaatgctgttaccacaagggttaggggtttaaagaaagta 2862
Db 1620 CTATCCCAATGATAATTCAAATGCTGTACCCAAAGGTAGGGTGTGGAAGGAAGGTA 1679
Qy 2863 gagggtggggttcagctctcaacgggttccctaaacccacctctctcttcttggcccagcc 2922
Db 1680 GAGGTGGGCTTTCAGGTCTCAAGGGCTTCCCTAACCCACCCCTCTTCTCTTGCCCGCAGCC 1739
Qy 2923 tggttcccccacttccactccctctctctctctctctctctctctctctctctctctctct 2982
Db 1740 TGGTTCCTCCCTTCCACTTCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1799
Qy 2983 ccaaaattccctaccaccccaactttccctaccaccccaactttcccccacagctccaca 3042
Db 1800 CCAAAATTTCCCTCTACCCCACTTTCCCTCTACCCCACTTTCCCTCTACCCCACTTTCC 1859
Qy 3043 acctgttggagctactgcagaccagaagcacaagtgcggtttcccaagcctttgtc 3102
Db 1860 ACCCTGTTGGAGCTACTGCAGGACACAGACAAAGTGCGGTTTCCCAAGCCTTTGTC 1919
Qy 3103 catctcagccccagagtatctctgtctgtgggaatctcacacagaaactcaggaagcac 3162
Db 1920 CATCTAGCCCCCAGAGTATATCTGTCTTGGGGAATCTCACACAGAACTCAGGAGCAC 1979
Qy 3163 ccctgctcagctaaggaggtcttctctcaggggggttttaagtgcgctttgcaat 3222
Db 1980 CCCCCTGCTGAGCTAAGGAGGCTTATCTCTCAGSGGGGTTTAAAGTCCGCTTTGCAAT 2039
Qy 3223 aatgctcttatttatttagcgggtggaatatttatactgttaagtgaagcagatcagagt 3282
Db 2040 AATGCTCTTATTTTATAGCGGGTGAATATTTTATCTGTAAAGTGAAGCAATCAGAGT 2099
Qy 3283 ataagtatttgtagacaaaattaaaggctttcttatatttta 3326
Db 2100 ATAATGTTTATGTTGACAAAATTAAGGCTTTCTTATATGTTTA 2143

RESULT 8

US-09-020-956-10
; Sequence 10, Application US/09020956
; Patent No. 6261562
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillin, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS
; NUMBER OF SEQUENCES: 178
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible


```
Db 1140 TAAACTCAGTCACCTGGTTCCCATCTCTAAGCCCTTAACTCGACCTTCGTTTAATGT 1199
Qy 2385 agctcttgatggagttcttagatgaacacactccctccatggattgaaacatatg-a 2442
Db 1200 AGCTCTTGCAATGGAGATTTAGATGAACACATCTCCATGGGATTTGAACATATGAAA 1259
Qy 2443 ctatttgtagggagagctctgaggggcaacacacaaagaccaggtccctcagccca 2502
Db 1260 GTTATTGTAGGGGAAGAGTCTGAGGGGCAACACAAAGACAGGTCCCTCAGGCCA 1319
Qy 2503 cagcactgtcttttggatgcccccctcttacotttttatcagatgtggcctgttg 2562
Db 1320 CAGCACTGCTCTTTTGTGATGCCACCCCTCTTACCTTTTATCAGGATGTGGCTGTG 1379
Qy 2563 gtctctctgtgcatcacagagacacagggcatttaataatttaactatttatttaaca 2622
Db 1380 GTCTCTCTGTGGCCATCACAGAGACACAGGCATTTAAATATTAACTATTATTAAACA 1439
Qy 2623 aagtagagggaatccattgtctagctttctgtgtgtgtgtcttaattttgggtagggtg 2682
Db 1440 AAGTAGAAGGGAATCCATTGCTAGCTTTTCTGTGTGTGTCTAATATTGGGTAGGGTG 1499
Qy 2683 ggggatcccaacaatcaggtccctcagatagctgtcattggcgtgcatcattgccaga 2742
Db 1500 GGGGATCCCCAACAAATCAGGTCCCTGAGATAGCTGTGTCTATTTGGCTGATCATTTGCCAGA 1559
Qy 2743 atcttctctctgggtctggcccccacaaatgccttaaccacagagaccttggaattcta 2802
Db 1560 ATCTCTTCTCTCTGGGCTGTGGCCCCCAAAATGCCTAACCCAGGACCTTGGAATTTCTA 1619
Qy 2803 ctcatacccaaatgataatccaaatgctgttaaccagggttaggtgttgaaggaaagta 2862
Db 1620 CTCATCCCAATGATAATTCAAATGCTGTGTACCAAGGTTAGGGTGTGAAGGAAGGTA 1679
Qy 2863 gaggtgggggttcagggtcctcaaggcttcccttaaccacccctctctcttggccagcc 2922
Db 1680 GAGGTGGGGCTTCAGGCTCTCAACGGCTTCCTTAACCAACCCCTCTTCTTTGGCCCCAGCC 1739
Qy 2923 tgggtcccccactccactccctctactctctctctctctctctctctctctctctctct 2982
Db 1740 TGGTTCCCCCACTTCCACTCCCTCTACTCTCTAGGACTGGGCTGATGAAGGCACTG 1799
Qy 2983 ccccaaatctccctaccaccccaatctccctaccaccccaatctccacacagctccaca 3042
Db 1800 CCAAAATTTCCCTACCACCCCACTTTCCCTACCCTACCCTACCCTACCCTACCCTACC 1859
Qy 3043 accctgtttgagctactgcaggaccagaagacacaaagtgcggtttcccaagcctttgtc 3102
Db 1860 ACCCTGTTTGGAGCTACTGACGAGGACCAAGACAAAGTGGGTTTCCCAAGCCTTTTGT 1919
Qy 3103 catctcagccccagagatatactgtgtgtgggaatctcaacagaaactcaggagcac 3162
Db 1920 CATCTCAGCCCCCAGAGTATATCTGTGCTTGGGAAATCTCACACAGAAACTCAGGAGCAC 1979
Qy 3163 cccctgcctgagctaaggagggtcttactctcaggggggttttaagtgcggtttgcaat 3222
Db 1980 CCCCTGCCTGAGCTAAGGAGGCTCTATCTCTCAGGGGGGCTTTAAGTCCCGTTTGCAAT 2039
Qy 3223 aatgtcgtctattattattagcgggttgaaatatttttactgtgaagtgaagcaatcagagt 3282
Db 2040 AATGTCGCTCTATTTTATTTAGCGGGGTGAATATTTTATATTTTATACATGTAAGTGAAGT 2099
Qy 3283 ataattgttatggtagacaaatgaagcctttcttatgttta 3326
Db 2100 ATAATGTTTATGGTGACAAATTAAGAGCTTCTTTATATGTTTA 2143
```

RESULT 7

US-09-525-397-15
; Sequence 15, Application US/09525397
; Patent No. 6252047
; GENERAL INFORMATION:

```
APPLICANT: BILLING-MEDEL, PATRICIA  
APPLICANT: COHEN, MAURICE  
APPLICANT: COLPITTS, TRACEY L.  
APPLICANT: FRIEDMAN, PAULA N.  
APPLICANT: GORDON, JULIAN  
APPLICANT: GRANADOS, EDWARD N.  
APPLICANT: HODGES, STEVEN C.  
APPLICANT: KLASS, MICHAEL R.  
APPLICANT: KRATOCHVIL, JON D.  
APPLICANT: ROBERTS-RAPP, LISA  
APPLICANT: RUSSELL, JOHN C.  
APPLICANT: STROUPE, STEPHEN D.  
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL  
TITLE OF INVENTION: FOR DETECTING DISEASES OF THE PROSTATE  
NUMBER OF SEQUENCES: 41  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Abbott Laboratories  
STREET: 100 Abbott Park Road  
CITY: Abbott Park  
STATE: IL  
COUNTRY: USA  
ZIP: 60064-3500  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/525,397  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/071,710  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Becker, Cheryl L.  
REGISTRATION NUMBER: 35,441  
REFERENCE/DOCKET NUMBER: 6083.US.P1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 847/935-1729  
TELEFAX: 847/938-2623  
TELEX:  
INFORMATION FOR SEQ ID NO: 15:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2143 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-09-525-397-15
```

```
Query Match 62.0%; Score 2114.8; DB 4; Length 2143;  
Best Local Similarity 99.8%; Pred. No. 0;  
Matches 2139; Conservative 0; Mismatches 2; Indels 3; Gaps 2;  
Qy 1185 accagggcgtgccagagctgagccgggacccggagggcccgagacacatgatgaagcg 1244  
Db 1 ACCAGGGCGTGCCACAGAGCTGAGCGGGGCACCCGAGGCGCGGAGACATATGATGAAGGCG 60  
Qy 1245 ttcgagatgggcagcctggggcgtgttctcagtcagtcgcatctcctctctctg 1304  
Db 61 TTCGATGGGCAGCCTGGGGCTGTTCCTGCAGTGGCCATCTCCCTGCTCTCTCTG 120  
Qy 1305 tcatggaccggcgtggtcagcgattcggcactcgagcagctatttggccagtggtg 1364  
Db 121 TCATGGACCGGCTGTCGACGGGATTCGACATCCGAGCAGTCTATTGGCCAGTGGCAG 180  
Qy 1365 ctttccctgtggtgcgggtgcccacatgcctgtccccacagtgtggcgtgagcagctt 1424  
Db 181 CTTTCCCTGTGGTGCCTGGTGGCCATGCTCCCTGTCCACAGTGGCGCGGTGACAGCTT 240  
Qy 1425 cagcggccctcacccggttcacctctcagccctgcagatcctcctcacactggcct 1484
```

Qy 3215 ttgcaataatgtogtcttatttatttagcggggtgaataatttatacttaagttagca 3274
Db 2041 TTTGCAATAATGCGCTTATTTATTATTAGCGGGTGAATATTTTATCTGTAAGTGAGCA 2100
Qy 3275 atcagaataaattttatgtgacaaaataaaggcttcttattatgttta 3326
Db 2101 ATCAGAGTAATAATGTTATGTTGACAAAATAAAGGCTTTCTTATATGTTTAA 2152

RESULT 6
US-09-071-710-15
; Sequence 15, Application US/09071710
; Patent No. 6130043
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: GORDON, JULIAN
; APPLICANT: GRANADOS, EDWARD N.
; APPLICANT: HODGES, STEVEN C.
; APPLICANT: KLASS, MICHAEL R.
; APPLICANT: KRATOCHVIL, JON D.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: RUSSELL, JOHN C.
; APPLICANT: STROUPE, STEPHEN D.
; TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
; FOR DETECTING DISEASES OF THE PROSTATE
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/071.710
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/850,713
; FILING DATE: 02-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6083 US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2143 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-071-710-15

Query Match 62.0%; Score 2114.8; DB 3; Length 2143;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 2139; Conservative 0; Mismatches 2; Indels 3; Gaps 2;
Qy 1185 accaggcgctccagagctagcgggcaccggccggagacactatgatgaagcgc 1244
Db 1 ACCAGGGCGTGCCAGAGCTGAGCGGGCACCGAGGCCCGGAGACACTATGATGAAGCGC 60

Qy 1245 ttoggatgggcagcctggggctgttctcagtgcccatctccctgggtctctctctg 1304
Db 61 TTGGATGGGCAGCCTGGGGCTGTTCCTCAGTGGCCCAATCICCCCTGGTCTCTCTCTG 120
Qy 1305 tcatgacccgctgggtgcagcagattcggcactcgacagcagctatattggccagtgtagcag 1364
Db 121 TCATGACCCGGCTGGTGCAGCGATTTCGGCACTCGACAGCTCTATTTGGCCAGTGTGCAG 180
Qy 1365 ctttccctgtgctgcccgtgcccacatgacctcccaacagtgcccggtggtgaacagctt 1424
Db 181 CTTTCCCTGTGGCTGCCGCTGCCACATGCTGTCCCCACAGTGTGGCGGTGACAGCTT 240
Qy 1425 cagcgcctcaccgggttcaaccttctcagcctcgagatcctcgccctcacacactggcct 1484
Db 241 CAGCCGCTTCACCGGGTTCACCTTCTCAGCCTCGAGATCCTGCCCTACACACTGGCCT 300
Qy 1485 cccctaccacccggggaagcaggtgttctcgtcccaataaccagagggacactgggggtg 1544
Db 301 CCCTCTACCACCCGGGAGAGCAGGTGTTCCTGCCCAATACCGAGGGGACACTGGAGGTG 360
Qy 1545 ctacagtgagagacagcctgataccagcttctccagcctcctccagcctcctcagcctggagctccct 1604
Db 361 CTAGCAGTAGGACAGCCTGATGACCAGCTTCTCGCAGGCCCTAAGCCTGGAGCTCCCT 420
Qy 1605 tccctaattggacacgtgggtgctggaggcagtggtggtggtggtggtggtggtggtggtggt 1664
Db 421 TCCTTAATGGACACGTGGGTGCTGGAGGCAGTGGCCTGTCCACCTCCACCCGCGCTCT 480
Qy 1665 gcggggcctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgct 1724
Db 481 GCGGGGCTCTGCTGTGATGTCTCGGTAGTGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGG 540
Qy 1725 ggtggttccggccggggcctgctgctgctgctgctgctgctgctgctgctgctgctgctgct 1784
Db 541 GGTGTGTTCCGGCCGGGGCATCTGCTGACCTCGCCATCTCTGGATAGTGGCTTCCTGTC 600
Qy 1785 tgtccaggtggcccccattccctgtttatgggtccattgtccagctcagccagctcgtc 1844
Db 601 TGTCCCAAGTGGCCCATCCCTGTATTATGGGCTCCATTTGTCACGCTCAGCAGCATGTCTCA 660
Qy 1845 ctgcctatatgtgtctgcgcagcctgggtgctgctgctgctgctgctgctgctgctgctgctgct 1904
Db 661 CTGCCTATATGTTGTTGCTGCCGAGGCTGGGTCTGGTGGCCATTTACTTTGCTACACAGG 720
Qy 1905 tagtattgacaagagcagcttggccaaatactcagcgtagaaactccagcacattgg 1964
Db 721 TAGTATTTGACAAGAGCGACTTGGCCAAATACTCAGCGTAGAAACTTCCAGCACATTTG 780
Qy 1965 ggtgagggcctgcctcactgggtcccagctcccgcctcctgctgctgctgctgctgctgctgctgct 2024
Db 781 GGTGGAGGGCTGCTCTACCTGAGGTGCCAGCTCCCGGCTCTCTGTTAGCCCCCATGGGGGTGC 840
Qy 2025 cgggctgcccgcagtttctgtgctgctgctgctgctgctgctgctgctgctgctgctgctgctgct 2084
Db 841 CGGGCTGCGCCGCACTTCTGTTGCTGCCAAAGTAATGTGGCTCTCTGCTGCCACCTGT 900
Qy 2085 gctgctgaggtgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgct 2144
Db 901 GCTGCTGAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 960
Qy 2145 tctctagggctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgct 2204
Db 961 TCCTAGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1020
Qy 2205 aggccagaaggctccatgcaatggaggtgaggtgaggtgaggtgaggtgaggtgaggtgaggtgaggt 2264
Db 1021 AGGCCAAGAGGGCTTCCATGCAATGC-GGGACTCTCAGGTGATGATGATGATGATGATGATGATGAT 1079
Qy 2265 aggttaacagctagcctcctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgct 2324
Db 1080 AGGTTTAACTAGCTAGCTCCTCTAGTTGAGACACACACTAGAGAGAGGGTTTTTGGGAGCTGAA 1139
Qy 2325 taaactcagtcacctgggttttcccatctctaaagcccttaacctgagctcagctcagctcagctcagct 2384

; TYPE: nucleic acid									
; STRANDEDNESS: single									
; TOPOLOGY: linear									
US-09-525-397-16									
Query Match 62.7%; Score 2136.4; DB 4; Length 2152;									
Best Local Similarity 99.9%; Pred. No. 0;									
Matches 2149; Conservative 0; Mismatches 1; Indels 2; Gaps 1;									
QY	1177	ggggctgtaccaggggcggtgccagagctgagccgggacagcgccagcgagccggcgagacactatga	1236						
DB	1	GGGCTGTACACAGGGCGTGCCACAGAGCTGAGCCGGGACACGAGGCGCGGAGACACTATGA	60						
QY	1237	tgaaggcgttcgcatgggcaagcctgggctgttcctgcagtgcccatctccctgctct	1296						
DB	61	TGAAGGCGTTCCGATGGGACCTGGGGCTGTTCCCTGCAGTGGCCATCTCCCTGGCTCT	120						
QY	1297	ctctctggtcatggaccggcggtgtgcagcgattcggcactcggcagctctatttggccag	1356						
DB	121	CTCTCTGGTCATGACCGCGGTGGTGAGCGATTTCGACACTCGAGCAGTCTATTTTGCCAG	180						
QY	1357	tgtggcagcttccctgtgctgctccgggtgcacatgcctgtcccaagtgtagcctgtgt	1416						
DB	181	TGTGGCAGCTTTCCTGTGGCTGCCGTGCCACATGCCCTGCCACAGTGTGGCCGTGT	240						
QY	1417	gacagcttcagcgccctcaccgggttcacctctcagcctgcagatccctgcctaacac	1476						
DB	241	GACAGCTTCAGCGCCCTCACCGGTTACCTTCTCAGCCCTCGAGATCCTGCCCCATCAC	300						
QY	1477	actggcctcccttacaccgggagagcagggtgttctctcccaaataccgaggggacac	1536						
DB	301	ACTGGCCTCCCTTACCACCGGAGAGCAGGTGTTCTGCCCAATACCGAGGGGACAC	360						
QY	1537	tgaaggctgtagcagtgagacagcctgatgaccagcttccctccagggccctaaagcctgg	1596						
DB	361	TGGAGTGTCTAGCAGTGAGACACAGCCTGATGACACAGTCTCTGCCAGGCCCTAAGCCTGG	420						
QY	1597	agtcctctccctaattggaacacgtgggtgctggaggcagtggtcgtcccaacctccac	1656						
DB	421	AGTCCCTTCCCTAATGGACACGTGGGTGCTGGAGGCAGTGGCTGTCTCCACCTCCACC	480						
QY	1657	cgcgctcggggcctctccctgtatgtctcgtacgtgtggtggtggtgagccac	1716						
DB	481	CGCCTCTGCGGGGCCCTGCCCTGTGATGTCCTCGTACGTGTGGTGTGGGTGAGCCAC	540						
QY	1717	cgaggccagggtggttccggggcgggccatcgtcctggacctcgccaacctggtatgtgc	1776						
DB	541	CGAGGCCAGGTGTTCCGGGCGGGGCATCTGCCTGGACCTCGCCATCCTGGATAGTC	600						
QY	1777	cttccctgtccagggtggccccatccctgtttagggctccattgtccagctcagcca	1836						
DB	601	CTTCCCTGTCCAGGTGGCCCATCCCTGTATGGGTCCCATTTCCAGCTCAGCCA	660						
QY	1837	gtctgtcactgcctatatgtgtgtcgcgagcgctgggtgctggtgcccatttactttgc	1896						
DB	661	GTCTGTCACTGCCATATGTTGTCTGCCGAGGCCCTGGGTCTGGTCGCCATTTACTTTGC	720						
QY	1897	tacacaggttagtatttgaacaagcgacttgcccaatactcagcgttagaaaaacttcag	1956						
DB	721	TACACAGGTAGTATTGACAAGAGCGACTTGGCCAAATACTCAGCGTAGAAAATTTCCAG	780						
QY	1957	cacattgggtgagggcctgcctcactgggtccagctcccgcctcctgtagcccat	2016						
DB	781	CACATTGGGTGGAGGCCCTGCCCTCACTGGGTCCAGCTCCCGCTCCTGTTAGCCCAT	840						
QY	2017	ggggctccgggtggccgcagtttctgttgtgtgccaagtaattggctctctgtgc	2076						
DB	841	GGGCTGCCGGCTGGCCGCCAGTTTCTGTGCTGTCGCAAGTAATGTGGCTCTCTGCTGC	900						
QY	2077	cacctgtgtcgtgaggtgcgtagctgcacagctgggggctgggggctccctctcctct	2136						
DB	901	CACCTGTGTGCTGAGTGGTGTGACAGCTGGGGGCTGGGGGCTGCCCTCTCTCTCT	960						
QY	2137	ctcccagctcttagggctgctgactgagccttcccagggggtttcagttcgtgactt	2196						
DB	961	CTCCCAGTCTCTAGGGCTGCCCTGACTGAGGCCCTTCCAGGGGGTTTCAGTCTGGACTT	1020						
QY	2197	atacagggaggccagaaggctccatgcactggaatgcggggactctgcaggtggattac	2256						
DB	1021	ATACAGGGAGGCCAGAAAGGCTCCATGCACCTGGAATGCGGGACTCTGAGGTGGATTAC	1080						
QY	2257	caaggctcaagggttaacagactagcctctagttgaacacacactcactcctcaggttttgg	2316						
DB	1081	CCAGGCTCAGGGTTAAACGTAGCTAGCTTCCCTAGTTGAGACACACTTACAGAAAGGTTTTTGG	1140						
QY	2317	gagctgaataaacctcagtcacctgggttcccatctctaaagcccttaacctgcagcttgc	2376						
DB	1141	GAGCTGAATAAACCTCAGTCACCTGGTTCCTCATCTCTAAGCCCTTTAACTGCAGCTCG	1200						
QY	2377	tttaatgtagctcttcgcatgggagtttctaggaataaacactcctcactcaggtttgaac	2436						
DB	1201	TTTAATGTAGCTCTTGCATGGGAGTTCTAGGATGAACACTCTCTCAATGGGATTGAAC	1260						
QY	2437	ataatg--acttatttaggggaagagtcctcaggggcaacacacagaacaccaggtcccc	2494						
DB	1261	ATATGAAAGTTATTGTAGGGGAGAGTCTCTGAGGGGCAACACACAGAACCAGGTCCCC	1320						
QY	2495	tcagccacacagcactgtctttttgtgtatccacccccctcttacccttttatcaggtatgt	2554						
DB	1321	TCAGCCACAGCAGCTCTCTTTTGTGTGATCCACCCCCCTCTTACCTTTTATCAGGATGTG	1380						
QY	2555	gctgtgtgtcctctctgttgccatcacagacacagcatttaaatattttaaactattt	2614						
DB	1381	GCCTGTGTGCTCTCTGTGTGCCATCACAGACACAGAGCATTTAATAATTATTATTATTT	1440						
QY	2615	atttaacaagtagaagggaatccattgtgtcttctgtgtgtgtgtgtatatttgg	2674						
DB	1441	ATTTAAACAAGTAGAAGGGAATCCATTGTGTAGCTTTTCTGTGTGTGTCTATAATTATGG	1500						
QY	2675	gtagggtggggatccccaacatcagtlccctcgtagatagctggttcattgggctgatca	2734						
DB	1501	GTAGGTTGGGGATCCCAACAATCAGTCCCTGTAGATAGCTGTGTCATTTGGGCTGATCA	1560						
QY	2735	ttgccagaatcttctctcctcgtgggtcgtggcccccaaaaatgctaaacccagaccttg	2794						
DB	1561	TTGCCAGAATCTTCTCTCTCTGGGCTGTGGCCCCCAAAAATGCTAACCCAGGACCTTGG	1620						
QY	2795	aaatttactatcccaaatgataattccaaatgctgttaccacaaggttaggtgttga	2854						
DB	1621	AAATTCTACTCATCCCAAAATGATAATCCAAATGCTGTACCCCAAGTTAGGTTGTTGAA	1680						
QY	2855	ggaaggttagagggtggggttcaggctcacaacggttccctaaacccacccctcttctctg	2914						
DB	1681	GGAAGGTAGAGGCTGGGGCTTCAGGTCTCAACGGCTTCCCTAACCCACCCCTCTCTCTTG	1740						
QY	2915	gcccagcctggttcccccacttccactccctctactctctcttaggactgggctgatga	2974						
DB	1741	GCCAGCCTGGTTCCCCCCACTTCCACTCCCTCTACTCTCTTAGGACTGGGCTGATGA	1800						
QY	2975	aggcactgccccaaaatttcccttacccccacaaatttcccttacccccacaaactttcccca	3034						
DB	1801	AGGACTGCCCAAAATTTCCCTTACCCCAACTTCCCTTACCCCAACTTCCCCACCA	1860						
QY	3035	gctccacaacccctgtttggagctactgcaggaacagaagcacaaagtgcggtttcccaag	3094						
DB	1861	GCTCCACAACCCCTGTTGGAGCTACTGCGAGGACAGAAAGTGGCGGTTTCCCAAG	1920						
QY	3095	ctttgtccatctcagccccccagatatctgtgtggggaatctcacacagaaactc	3154						
DB	1921	CCTTGTGCTATCTCAGCCCCCAGAGTATATCTGTGCTTGGGGAATCTCACAGAAACTC	1980						
QY	3155	aggagcacccctcgtcgtgagctgaaggaggtcttattctctcagggggggtttaagtccg	3214						
DB	1981	AGGAGCACCCCTGCCTGAGCTAAGGAGGTCTTATCTCTCAGGGGGGTTTAAGTGCCG	2040						


```
Qy 2881 ctaacggcttccttaacacccctctctcttgccagcctggttccccccacttcca 2940
Db 2881 ctaacggcttccttaacacccctctctcttgccagcctggttccccccacttcca 2940
Qy 2941 ctcctctactctctcttagaactgggctgatgaagcactgcccataattccccctacc 3000
Db 2941 ctcctctactctctcttagaactgggctgatgaagcactgcccataattccccctacc 3000
Qy 3001 cccaactttccctaccccaactttcccccacagctcccaacccctgtttggagctact 3060
Db 3001 cccaactttccctaccccaactttcccccacagctcccaacccctgtttggagctact 3060
Qy 3061 gcaggacagaagcacaaagtgcgtttcccaagcctttgtccatctcagccccccagagt 3120
Db 3061 gcaggacagaagcacaaagtgcgtttcccaagcctttgtccatctcagccccccagagt 3120
Qy 3121 atatctgtctgggggaattctcacacagaactcagagacccccctgcttgactaagg 3180
Db 3121 atatctgtctgggggaattctcacacagaactcagagacccccctgcttgactaagg 3180
Qy 3181 gaggcttatctctcaggggggtttaagtccgttttgcaataatgctcgtcttatttatt 3240
Db 3181 gaggcttatctctcaggggggtttaagtccgttttgcaataatgctcgtcttatttatt 3240
Qy 3241 tagcgggtgtaatttttactagtgagcaatcagagataatgttttatgtgtgaca 3300
Db 3241 tagcgggtgtaatttttactagtgagcaatcagagataatgttttatgtgtgaca 3300
Qy 3301 aaattaaggctttcttatgttttaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa 3360
Db 3301 aaattaaggctttcttatgttttaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa 3360
Qy 3361 aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa 3410
Db 3361 aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa 3410
```

RESULT 4

```
US-09-071-710-16
: Sequence 16, Application US/09071710
: Patent No. 6130043
: GENERAL INFORMATION:
: APPLICANT: BILLING-MEDEL, PATRICIA
: APPLICANT: COHEN, MAURICE
: APPLICANT: COLPITTS, TRACEY L.
: APPLICANT: FRIEDMAN, PAULA N.
: APPLICANT: GORDON JULIAN
: APPLICANT: GRANADOS, EDWARD N.
: APPLICANT: HODGES, STEVEN C.
: APPLICANT: KLASS, MICHAEL R.
: APPLICANT: KRATOCHVIL, JON D.
: APPLICANT: ROBERTS-RAPP, LISA
: APPLICANT: RUSSELL, JOHN C.
: APPLICANT: STROUPE, STEPHEN D.
: TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
: FOR DETECTING DISEASES OF THE PROSTATE
: NUMBER OF SEQUENCES: 41
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Abbott Laboratories
: STREET: 100 Abbott Park Road
: CITY: Abbott Park
: STATE: IL
: COUNTRY: USA
: ZIP: 60064-3500
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette
: OPERATING SYSTEM: DOS
: SOFTWARE: FASTSEQ for Windows Version 2.0
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/071,710
: FILING DATE:
: CLASSIFICATION:
```

```
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/850,713
: FILING DATE: 02-MAY-1997
: ATTORNEY/AGENT INFORMATION:
: NAME: Becker, Cheryl L.
: REGISTRATION NUMBER: 35,441
: REFERENCE/DOCKET NUMBER: 6083.US.P1
: TELEPHONE: 847/935-1729
: TELEFAX: 847/938-2623
: TELEX:
: INFORMATION FOR SEQ ID NO: 16:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 2152 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: US-09-071-710-16
```

```
Query Match 62.7%; Score 2136.4; DB 3; Length 2152;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2149; Conservative 0; Mismatches 1; Indels 2; Gaps 1;

Qy 1177 ggggctgtaccagggctgccagagctgagccgggacccagggcccgagacactatga 1236
Db 1 GGGGCTGTACCAGGGCTGCCAGAGCTGAGCCGGGCACCGAGCGCGGAGACACTATGA 60

Qy 1237 tgaagggttcgagtgagcagcctggggctgttctcagtgcccatctccctggctt 1296
Db 61 TGAAGGGTTCGGATGGGACGCCCTGGGGCTGTTCTCGAGTGCCCATCTCCCTGGTCTT 120

Qy 1297 ctctctggtcatgacccggctggtgcagcgattcggcactcagcagctctatttggccag 1356
Db 121 CTCTCTGGTCATGGACCGGCTGGTGCAGCGATTTCGGCACATCGACAGCTCTATTGGCCAG 180

Qy 1357 tgtggcaggttccctgtggtgcccgtgcacatgctgtccacagtgctgtccacagtgctg 1416
Db 181 TGTGGCAGTTTCCCTGTGGCTGCCGTGCCATGCTGTGCCACAGTGTGGCCGTGT 240

Qy 1417 gacagcttcagcgcctcaccgggttcaccttcagcctgcagatcctgcgcctacac 1476
Db 241 GACAGCTTCAGCCGCCCTCACCGGGTTACCTTCTGAGCCCTGCAGATCTTCCTCCCTACAC 300

Qy 1477 actggcctcctctaccacccgggagagcaggtgttctgtcccaataaccagaggggaac 1536
Db 301 ACTGGCCTCCCTCTACACCGGGAGAGCAGGTCTTCTGCCCAATACCCAGGGGACAC 360

Qy 1537 tgaagtgctagcagtgagagacagcctgatgacagcttctccagcgcctaaagcctgg 1596
Db 361 TGGAGGTGCTAGCAGTGAGGACAGCCCTGATGACAGAGTTCTTCCAGGCCCCCTAAGCCCTGG 420

Qy 1597 agctcccttccctaataatggacacgtgggtgctggaggcagtggtcctccacacctccacc 1656
Db 421 AGCTCCCTTCCCTAATGGACACAGTGGGTGCTGGAGGAGATGGCCCTGTCTCCACCTCCACC 480

Qy 1657 cgcgctctcggggcctctcctctgtgatgtctccgtacgtgtgtggtggtggtggtggtggt 1716
Db 481 CGCGCTCTCGGGGCCCTCTGCTGTGATGTCTCGTACGTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 540

Qy 1717 cgaggccaggggtgttccggggcggggcagcctgctcctgagacccatcctcctggatgtgc 1776
Db 541 CGAGGCCAGGGTGGTTCGGGGCCGGGGCATCTGCTTGACCTCCGACCTCCCATCTCTGGATAGTC 600

Qy 1777 ctctctgtgtcccaggtggcccccatccctgtttatgggtccatttgcagctcagcaca 1836
Db 601 CTTCTCTGTCTCCAGGTGGCCCCATCCCTGTTTATGGGTCCCATTTGCCAGCTCAGGCA 660

Qy 1837 gtctgtcactgcctatatgtgtctgcgcagggcctggtgtgtgtgtgtgtgtgtgtgtgtgtgt 1896
Db 661 GTCTGTCACTGCCTATATGTTGTCTGCGCAGGCGCTGGTCTGCTGCTGCTGCTGCTGCTGCTGCTG 720

Qy 1897 tacacaggtagtagtatttgacaagagcgacttggccaaataactcagcgtgagaaacttccag 1956
```

Db 661 cctgggctggtggtgacttctgtgcccaggtgtgttccactccactggagggcct 720
 Qy 721 gctcttgacctcttcggaacccgagaccactgtcgcagacctactctctcatgctt 780
 Db 721 gctcttgacctcttcggaacccgagaccactgtcgcagacctactctctcatgctt 780
 Qy 781 catgatcagttgtggggctgcttgggctaccctctctcctgctgacctggaacacacag 840
 Db 781 catgatcagttgtggggctgcttgggctaccctctctcctgctgacctggaacacacag 840
 Qy 841 tgccttgccccctaacctgggacccacagaggaggtgctcttggcctgtccacctcat 900
 Db 841 tgccttgccccctaacctgggacccacagaggaggtgctcttggcctgtccacctcat 900
 Qy 901 ctctcactcgtgtagcagccacactgctgtgtgctgagaggagcagcgtgggccccac 960
 Db 901 ctctcactcgtgtagcagccacactgctgtgtgctgagaggagcagcgtgggccccac 960
 Qy 961 ctagccagcagaagggtgtgtggccccctctctgtgtgcccccaactgtgtccatgcccggc 1020
 Db 961 ctagccagcagaagggtgtgtggccccctctctgtgtgcccccaactgtgtccatgcccggc 1020
 Qy 1021 ccgcttggtttccggaacctgggccccctgcttcccggtgcacacagctgtgtaccg 1080
 Db 1021 ccgcttggtttccggaacctgggccccctgcttcccggtgcacacagctgtgtaccg 1080
 Qy 1081 catgccccgcaacctgcgcggctcttctgtgtgagctgtgagctgggagctggaacactcat 1140
 Db 1081 catgccccgcaacctgcgcggctcttctgtgtgagctgtgagctgggagctggaacactcat 1140
 Qy 1141 gacottcaogctgttttacacgggatttctgtggggcaggggctgtaccagggcgtgcccag 1200
 Db 1141 gacottcaogctgttttacacgggatttctgtggggcaggggctgtaccagggcgtgcccag 1200
 Qy 1201 agctgagccgggacccagggcccgagacactatgtagaaggcgttcggaaggcagcct 1260
 Db 1201 agctgagccgggacccagggcccgagacactatgtagaaggcgttcggaaggcagcct 1260
 Qy 1261 ggggctgttctcagtgccatctccctggttctctctgtgtcatggaccggcgtggt 1320
 Db 1261 ggggctgttctcagtgccatctccctggttctctctgtgtcatggaccggcgtggt 1320
 Qy 1321 gcagcgattcggcactgcagcagctatttggccagctgtggcagcttccctgtgctgc 1380
 Db 1321 gcagcgattcggcactgcagcagctatttggccagctgtggcagcttccctgtgctgc 1380
 Qy 1381 cgggtgceacatgctgtccacagctgtggccgctgtgtgacagcttcagcggccctcacgg 1440
 Db 1381 cgggtgceacatgctgtccacagctgtggccgctgtgtgacagcttcagcggccctcacgg 1440
 Qy 1441 gttcacotttccagcctgcagatcctgcctacacactggcctccctctaccaccggga 1500
 Db 1441 gttcacotttccagcctgcagatcctgcctacacactggcctccctctaccaccggga 1500
 Qy 1501 gaagcaggtgttctgcccataaccaggggagacactggaaggtgctagcagtggagcag 1560
 Db 1501 gaagcaggtgttctgcccataaccaggggagacactggaaggtgctagcagtggagcag 1560
 Qy 1561 cctgatgaccagcttctgtccagggccttaagcctggagctccctccctaatggacacgt 1620
 Db 1561 cctgatgaccagcttctgtccagggccttaagcctggagctccctccctaatggacacgt 1620
 Qy 1621 ggggtgtagggcagtggtcctgctccacactccaccggcgtctgcccgggctctgctg 1680
 Db 1621 ggggtgtagggcagtggtcctgctccacactccaccggcgtctgcccgggctctgctg 1680
 Qy 1681 tgatgttccgtacgtgtgtgtgggtgagccccacagggcaggtgtgtccggggcgg 1740
 Db 1681 tgatgttccgtacgtgtgtgtgggtgagccccacagggcaggtgtgtccggggcgg 1740
 Qy 1741 ggggaatcgtcgtgaccccgcaactcctgtagtgccttctgctgtcccaggtggcccc 1800
 Db 1741 ggggaatcgtcgtgaccccgcaactcctgtagtgccttctgctgtcccaggtggcccc 1800

Qy 1801 atccctgtttatgggtcccatgttccagctcagccagctctgtcactgcctatatgtgtc 1860
 Db 1801 atccctgtttatgggtcccatgttccagctcagccagctctgtcactgcctatatgtgtc 1860
 Qy 1861 tgcgcagggcctgggtgctgctgccatttacttgcacacaggtagttattgacaagag 1920
 Db 1861 tgcgcagggcctgggtgctgctgccatttacttgcacacaggtagttattgacaagag 1920
 Qy 1921 cgaacttgcccaataactcagcgtagaaaaactccagcacattgggggtggaggcgctcct 1980
 Db 1921 cgaacttgcccaataactcagcgtagaaaaactccagcacattgggggtggaggcgctcct 1980
 Qy 1981 cactgggtcccagctcccgcctcctttagcccaactggggctgcgggctgcccgcagct 2040
 Db 1981 cactgggtcccagctcccgcctcctttagcccaactggggctgcgggctgcccgcagct 2040
 Qy 2041 ttctgttgcgcacaaactaaatggtctctctgtgcacacctgtgtgctgtgaggtgcgta 2100
 Db 2041 ttctgttgcgcacaaactaaatggtctctctgtgcacacctgtgtgctgtgaggtgcgta 2100
 Qy 2101 gctgcacagctggggctggggcgtccctctctctcctccacagctctctagggcgtcctg 2160
 Db 2101 gctgcacagctggggctggggcgtccctctctctcctccacagctctctagggcgtcctg 2160
 Qy 2161 actggaggccttccaaagggtttcagctcgtgacctatacaggaggagccagaaggctcc 2220
 Db 2161 actggaggccttccaaagggtttcagctcgtgacctatacaggaggagccagaaggctcc 2220
 Qy 2221 atgcactgggaatgcgggactctgcaggtggattaccaggtcaggggttaacagctagc 2280
 Db 2221 atgcactgggaatgcgggactctgcaggtggattaccaggtcaggggttaacagctagc 2280
 Qy 2281 ctctagttgagacacacctagagaagggttttgggagctgaataaactcagtcacactg 2340
 Db 2281 ctctagttgagacacacctagagaagggttttgggagctgaataaactcagtcacactg 2340
 Qy 2341 gtttccatctctaaagcccttaacctgcagcttcgtttaaagctgctctgctgagggag 2400
 Db 2341 gtttccatctctaaagcccttaacctgcagcttcgtttaaagctgctctgctgagggag 2400
 Qy 2401 tttctagtagaaacactcctccatgggatttgaaactatgacttattttaggggaaga 2460
 Db 2401 tttctagtagaaacactcctccatgggatttgaaactatgacttattttaggggaaga 2460
 Qy 2461 gtcctgagggggaacacacagaaccgggtccctcagccacacagcctgtcttttgcct 2520
 Db 2461 gtcctgagggggaacacacagaaccgggtccctcagccacacagcctgtcttttgcct 2520
 Qy 2521 gatccacccctcttaccttttatcaggtgtggtcctgttgggtccctctctgttgcacatca 2580
 Db 2521 gatccacccctcttaccttttatcaggtgtggtcctgttgggtccctctctgttgcacatca 2580
 Qy 2581 cagagacacagggcatttaaaattttaaacttattttaaataagtagaagggaatccat 2640
 Db 2581 cagagacacagggcatttaaaattttaaacttattttaaataagtagaagggaatccat 2640
 Qy 2641 tgcctagtttctgtgtgtgtgtctaatatttgggtgggggtggggggtatccccacaatca 2700
 Db 2641 tgcctagtttctgtgtgtgtgtgtctaatatttgggtgggggtggggggtatccccacaatca 2700
 Qy 2701 ggtccctgagatagctgggtcattgggtgacttgcagaaatcttctctctctggtggt 2760
 Db 2701 ggtccctgagatagctgggtcattgggtgacttgcagaaatcttctctctctggtggt 2760
 Qy 2761 ctggcccccccaaaatgctaaacccagaccttggaatcttactcatcccaaaatgataat 2820
 Db 2761 ctggcccccccaaaatgctaaacccagaccttggaatcttactcatcccaaaatgataat 2820
 Qy 2821 tccaaaatgctgtttacccaaaggttaggtgtgtgaaggaggttagaggggtggggcttcaggt 2880
 Db 2821 tccaaaatgctgtttacccaaaggttaggtgtgtgaaggaggttagaggggtggggcttcaggt 2880

Qy	2451	gtcctgaggggcaacacaaagaacccagggtccccctcagccacacagcactgtcttcttggct	2520
Db	2461	gtcctgaggggcaacacaaagaacccagggtccccctcagccacacagcactgtcttcttggct	2520
Qy	2521	gattcacccccctctacatttataagatgtagccctgtggctctctctgttgcacatca	2580
Db	2521	gattcacccccctctacatttataagatgtagccctgtggctctctctgttgcacatca	2580
Qy	2581	cagagacacaggcatttaaatatttaacattattttaaacaagaatagaaggaatccat	2640
Db	2581	cagagacacaggcatttaaatatttaacattattttaaacaagaatagaaggaatccat	2640
Qy	2641	tgttagctttctgtgttggtgctctaattttgggtagaggtgaggggattccccacaatca	2700
Db	2641	tgttagctttctgtgttggtgctctaattttgggtagaggtgaggggattccccacaatca	2700
Qy	2701	ggctccccctgagatagctgggttcattgggtgcattgtccagaatacttcttctctggggt	2760
Db	2701	ggctccccctgagatagctgggttcattgggtgcattgtccagaatacttcttctctggggt	2760
Qy	2761	ctggcccccccaaatgcttaacccaggagaccttggaaattctactcatccccaaatgataat	2820
Db	2761	ctggcccccccaaatgcttaacccaggagaccttggaaattctactcatccccaaatgataat	2820
Qy	2821	tccaaatgcgttaccacaaggttagtgttgaagaaggtagaggtggggcttcagggt	2880
Db	2821	tccaaatgcgttaccacaaggttagtgttgaagaaggtagaggtggggcttcagggt	2880
Qy	2881	ctcaacggcttccccctaacaccacctctctcttggccagacctggttccccccacttcca	2940
Db	2881	ctcaacggcttccccctaacaccacctctctcttggccagacctggttccccccacttcca	2940
Qy	2941	ctccccctactctctctaggaactgggtgtgtagagggaactgccccaaatttccccctacc	3000
Db	2941	ctccccctactctctctaggaactgggtgtgtagagggaactgccccaaatttccccctacc	3000
Qy	3001	ccccacttccccctacccccccaacttccccccacagctccacaacctgtttggagactact	3060
Db	3001	ccccacttccccctacccccccaacttccccccacagctccacaacctgtttggagactact	3060
Qy	3061	gcaggcacaagaacaaagtgcggtttccccaaagccttgtccatctcagccccacaggt	3120
Db	3061	gcaggcacaagaacaaagtgcggtttccccaaagccttgtccatctcagccccacaggt	3120
Qy	3121	atatctgtgttggggaactcaacagaactcaggagcaccctgcctgagctgaagg	3180
Db	3121	atatctgtgttggggaactcaacagaactcaggagcaccctgcctgagctgaagg	3180
Qy	3181	gaggtcttatctctcagggggggtttaagtgcggtttgcaataatgtcgtcttatttatt	3240
Db	3181	gaggtcttatctctcagggggggtttaagtgcggtttgcaataatgtcgtcttatttatt	3240
Qy	3241	tagcgggggtgaatatatttatactgttaagttagcaatcagagatataatgtttatagtgaca	3300
Db	3241	tagcgggggtgaatatatttatactgttaagttagcaatcagagatataatgtttatagtgaca	3300
Qy	3301	aaattaaaggcttcttatgttttaaaaaaaataaaaaaaataaaaaaaataaaaaaa	3360
Db	3301	aaattaaaggcttcttatgttttaaaaaaaataaaaaaaataaaaaaaataaaaaaa	3360
Qy	3361	aaaaaaaraaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaa	3410
Db	3361	aaaaaaaraaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaa	3410

RESULT

RESULT	3	
US-09-439-313-110		
: Sequence 110, Application US/09439313		
: Patent No. 6329505		
: GENERAL INFORMATION:		
: APPLICANT: Xu, Jiangchun		
: APPLICANT: Dillon, Davin C.		
QY	601	cggtgctagcagggtgctgtgcccggatcccaggccccctggagctggcactgctcat 660
Db	601	cggtgctagcagggtgctgtgcccggatcccaggccccctggagctggcactgctcat 660
QY	661	cctggcgctggggctgctggacttctgtggccagtgctgtcttactccactcggggcccc 720

|||||
Db 241 GAGTGCCTGAACGGCCCTTGAGCCCTACCGCCCTGCCCCACTATGCTCAGAGGCTGTG 300
Qy 301 ggtgagccgctgtgtgagccgcaagagccagctcttctggtgcaactgtataactc 360
Db 301 GGTGAGCCGCTGTGTGGGCAACCGAAGCCAGCTCTGTGTGCTCAACCTGTAACCTT 360
Qy 361 tggctgagagtggtttggtggtgagcagcacaactatgtgcccctctgtgtggaagt 420
Db 361 TGGCTGAGAGTGTTGTTGGGCGGAGGCAATACCTATGTGCCGCTCTGCTGCTGGAAGT 420
Qy 421 gggggtagagagagttcatgaccatggtgtgtggtggcattggtccagtgctgggctgggt 480
Db 421 GGGGTAGAGGAGAAGTTCATGACCATGTTGCTGGGCACTCTGTGGCACTTCTCATPCCCAAGGGC 480
Qy 481 ctgtgtcccgctctagctcagccaatgaccactgagcgtgagcgtatgtgcgcgcgcg 540
Db 481 CTGTGTCCCGCTCTTAGGCTCAGCAGTGACCACTGGCGTGGAGCTATGGCCGCCGCCG 540
Qy 541 gcccctcatctgggcaactgtcttgggcaactcctgtgagcctcttctcatcccaaggc 600
Db 541 GCCCTTCATCTGGGCACTGCTTGGGCACTCTGTGGCACTCTGTGAGCCCTTCTCATPCCCAAGGGC 600
Qy 601 cggctggttagcagggctgtgtgcccagatcccaggccccctgagcgtggaactgctcat 660
Db 601 CGGCTGGCTAGCAGGGCTGCTGTGCCCGGATCCCAAGGCCCTGGAGCTGGCACTGCTCAT 660
Qy 661 cctgggctggtggctgtggtgactctgtggtcaggtgtgttcaactcgaactggagggcct 720
Db 661 CCTGGGCTGGGCTGCTGGACTCTGTGGCCAGGTGTCTCACTCCACTGGAGGCCCT 720
Qy 721 gctctctgacctcttccgggaccgggacaactgtgtgcaggccctactgtctatgacct 780
Db 721 GCTCTCTGACCTCTTCCGGGACCCGAGCACTGTGTGCCAGGCCACTCTGTCTATGCGCTT 780
Qy 781 catgatacgtctgggctgctgtggctgacctgacctgctgctcctgagcgtggacacag 840
Db 781 CATGATCAGCTTGGGGCTGCTGGGCTACCTCTGCTGCCATTGACTGGGACACAG 840
Qy 841 tggcctggcccctacctgggaccggagaggtgctctcttggcctgtcaacctcat 900
Db 841 TGCCCTTGCCCCCTACCTGGGCAACCAAGAGAGTGCCTCTTGGCCCTGCTCACCCCTCAT 900
Qy 901 ctctctcaactcgttagcagcacacactgtgtgtgctgagagcagcgtgggcccac 960
Db 901 CTCTCTCACTCTGCTAGCAGCCACACTGCTGCTGCTGAGGAGGAGGCTGGGCCCCAC 960
Qy 961 cgagccagcagaagggctgtggtggcccccctccttgtgcccacactgtgtccatgcccggc 1020
Db 961 CGAGCCAGCAGAAGGGCTGTGCGGCCCTCTCTGTGTGCGCCCACTGCTGTCCATGCGGGC 1020
Qy 1021 ccgcttggtttccggaacctgggcccctgctctcccgagtgcaacagctgtgtgcg 1080
Db 1021 CGGCTTGGCTTTCGGGAACCTGGGCGCCCTGCTCTCCCGGCTGCAACAGCTGTGTGCGG 1080
Qy 1081 catgcccgcacacctgctgcccgtctctgtgtgctgagctgtgagcgtggatggcaactcat 1140
Db 1081 CATGCCCCCACTCTGCGCGCGCTCTCTGTGCTGAGCTGTGCACTGGCACTCAT 1140
Qy 1141 gaccttcaactgttttaacaggttctgtgtggtgaggggctgtgacagggcggtgccacag 1200
Db 1141 GACCTTACGCTGTTTTACACGGATTTCGTGGGCGAGGGGCTGTACCAAGGGCGTGCCACAG 1200
Qy 1201 agctagccggcagccagggccgagacactatgatgaagcgttcggatgggagcgt 1260
Db 1201 AGCTGAGCCGGGACCGAGGCCCGGAGACACTATGATGAGAGCGGTTCGGATGGGCGAGCT 1260
Qy 1261 ggggctgttctctgagtgagccatctccctgggtctctctctgtgtcatggaccggctgggt 1320
Db 1261 GGGGCTGTCTCTGCACTGCGGCACTCTCCCTGGTCTCTCTGCTGCTGATGGACCGGCTGGT 1320
Qy 1321 gcagcgattcggcaactcgagcagctatttggcagtggtgagcgtttccctgtgtgctgc 1380
|||||

Db 1321 GCAGCGATTGGGCACTGCGAGCACTCTATTGGCCAGCTGTGGCAGCTTCCCTGTGGCTGC 1380
Qy 1381 cgtgtccacatgctgtcccacagtggtggtggtgagcagcttccagcgcgcctcaccgg 1440
Db 1381 CGGTGCCACATGCTGTCTCCACAGTGTGGCCGTGTGACAGCTTACAGCCGCCCTCACCG 1440
Qy 1441 gttcaacttctagccctgcagatcctgtccctacacactggtcctcctctacacacggag 1500
Db 1441 GTTCACTTCTACGCCCTGCAGATCTGCCCTACACACTGGCCCTCCCTCTTACCACCGGA 1500
Qy 1501 gaagcaggtgttctgtcccaaaataccgaggggacactggaggtgtgtagcagtgagacag 1560
Db 1501 GAACAGAGTGTCTGCCCAATACCGAGGGACACTGGAGGTGCTAGCAGTGAAGACAG 1560
Qy 1561 cctgatgacagcttctgtccagggccctaaagcctgagctccttccctaaatggaacagt 1620
Db 1561 CCTGATGACAGCTTCTGTCCAGGCCCTAAGCCTGGAGTCCCTTCCCTAATGGACAGT 1620
Qy 1621 ggtgtcgaagcagtggtcgtctccacactcaccgcgcgtctgtggggcctctgtcgtg 1680
Db 1621 GGTGTCTGGAGGAGTGGCTGTCCACCTCCACCCGCGCTCTGCGGGGCTCTGCCCTG 1680
Qy 1681 tgaigtctcgtacgtgtgtgtggtgagcccaacagggccaggggttccggggcgtg 1740
Db 1681 TGATGTCTCCCTACGTGTGTGTGGGTGAGCCACCGAGGCCAGGGTGTTCGGGGCCG 1740
Qy 1741 gggcatctgctggaacctggtccatcctgagtagtgccttctcgtgtccaggtggcccc 1800
Db 1741 GGGCATCTGCTGGAGCTGCCATCTCGGATAGTGCTTCTGCTCTCCACAGTGGCCCC 1800
Qy 1801 atccctgtttatgggtccattgtccagctcagccagctgtcactgctctatatggtgtc 1860
Db 1801 ATCCCTGTTTATGGCTCCATTTGTCCAGCTCAGCCAGCTGTCTACTGCCCTATATGTTGTC 1860
Qy 1861 tgcgcagggcctgggtctgtgcccatttactttgtacacagtagtatattacaagag 1920
Db 1861 TGCCGCAAGGCTGGGTCTGTGTGCCAATTTACTTTGCTTACACAGTAGTATTTGACACAG 1920
Qy 1921 cgacttgcccaataactcagcgttagaaaaactccagcacattgggggtggaggcctcct 1980
Db 1921 CGACTTGCCCAATACTACAGGTAGAAAACTTCCAGCACATTGGGGTGGAGGGCTGCCT 1980
Qy 1981 cactgggtcccagctcccgcctcctgttagcccaatggggctgcccggctggcgccagct 2040
Db 1981 CACTGGGTCCACAGTCCCGCTCTCTGTTAGCCCATGGGGCTGGCCGGCTGGCCGCTCAGT 2040
Qy 2041 ttctgtgtgtgcaaaagtaatgtgtgtctctgtgtccacacctgtgtgtgtgagtgcgta 2100
Db 2041 TTCTGTGTGTGCCAAAGTAATGTGGCTCTCTGTCTGCCACCTGTGTGTCTGAGGTGCGTA 2100
Qy 2101 gctgcacagctgggggctggggcctcctctcctcctcctcctcctcctcctcctcctg 2160
Db 2101 GCTGCACAGCTGGGGGCTGGGGCTCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
Qy 2161 actggagggccttcaagggggtttcagctctgacctatatacagggagcccaagaaggctcc 2220
Db 2161 ACTGGAGGGCTTCCAAAGGGGTTTCAGTCTGGACTTATACAGGGAGGCCAGAGGGCTCC 2220
Qy 2221 atgcactggaatgcgggactcctgcaggtgattaccacaggtcaggggttaacagctagc 2280
Db 2221 ATGCATGGAAATGCGGGGACTCTGCAGGTGGATTACCCAGGCTCAGGGTTAACAGCTAGC 2280
Qy 2281 ctctagttagaacacacctagaaagggtttttgggagctgaataaactcagtcactcgt 2340
Db 2281 CTCCTAGTTGAGACACACCTAGAGAAAGGGTTTTTGGGAGCTGGAATAAACTCAGTCACTG 2340
Qy 2341 gttcccatctctaaagcccttaacctgcagcttctctttaaagttagctccttgcatggag 2400
Db 2341 GTTTCACATCTTAAGCCCTTAACCTGCAGCTTCGTTAATGTAGCTTCTTCATGGGAG 2400
Qy 2401 ttcttaggatgaacactcctccatgggatttgaacatatgactattttaggggaaga 2460
Db 2401 TTTCTAGGATGAACACTCTCTCCATGGGATTGAACATATGACTTATTTGTAGGGGAAGA 2460
|||||

QY	2221	atgcaactggaatgcggggaactctcgaagtggattaccacagctccaggggttaa	cagctagc	2228
Db	2221	ATGCATCGGAATGCGGGGACTCTGCAGGTGGATTACCCAGGCTCAGGGTTAA	CAGCTAGC	2280
QY	2281	ctccagttgagacacacactagagaagggttttggagctggaataaacctcagt	caacctg	2340
Db	2281	CTCCTTAGTTGAGACACACCTAGAGAAGGGTTTTTGGGAGCTGAATAAACT	CAGTCACCTG	2340
QY	2341	gttcccactctagaagcccttaaacctcagcttcgtttaaatgtagctcttgat	gggag	2400
Db	2341	GTTTCCCATCTCTAAGCCCTTAAACCTCAGCTTCGTTTAACTAGCTCTG	ATGATGGAG	2400
QY	2401	tttttagatgaacacactcctccatccatggatttgaacatatagactatttat	tagggaaga	2460
Db	2401	TTTTTAGGATGAACACACTCCTCCATGGGATTGAACATATGACTATTATT	GTAGGGGAAGA	2460
QY	2461	gtcctgaggggcaacacacagaacacaggtcccctcagccacagcagctgtct	tttttgc	2520
Db	2461	GTCTCAGGGGCAACACACAAGAACAGGTCCCTCCAGCCACAGCACTGTCT	TTTTTGCT	2520
QY	2521	gatcaaccccctcttacccttttatacaggaatgtggcctgttgctctctgtgc	caata	2580
Db	2521	GATCCACCCCTCTTACCTTTTATCAGATGTGGCTTGTGGTCTCTGTGCCC	ATCA	2580
QY	2581	cagacacagggcatttaataattaaactttattttaacaaagtagaagggaatcc	at	2640
Db	2581	CAGACACAGGCAITTTAAATATTAACTTATTATTAAACAAAGTAGAAGG	GAATCCAT	2640
QY	2641	tgtagctttctgtgtgtgtctaaattttggtagaggtgggggattccccaca	aatca	2700
Db	2641	TGTAGCTTTTCTGTGTGGTGTCTAAATATTGGGTAGGGTGGGGATGCC	CAACAATCA	2700
QY	2701	ggtcccctcagatagctgttcattggctgattcgacattgcagaactcttctc	ctctggggt	2760
Db	2701	GGTCCCTCAGATAGCTGTCTATTGGCTGATCATTTGCCAGAATCTTCTCT	CTCTGGGCT	2760
QY	2761	ctggcccccaaaatgcctaaacccaggaccttggaaattctactcatcccaat	tgataat	2820
Db	2761	CTGGCCCCCAAAATGCCTAACCCAGGACTTTGGAATTTACTATCCCAAA	TGATTAAT	2820
QY	2821	tccaaatcgtttacccaaggttaggggtgtgaaggaaggtagaggggtggggc	ctcaggt	2880
Db	2821	TCCAAATGCTTGTACCAAGGTTAGGGTGTGAAGGAGGTAGAGGGTGGG	CTCAGGT	2880
QY	2881	ctcaacggcttcccataaccacacccctctctctgtggccagcctgggttcc	ccccactcca	2940
Db	2881	CTCAACGGCTTCCCTAACCACCCCTCTCTCTGTGGCCAGGCTGGTTCC	CCCCACTTCCA	2940
QY	2941	ctccccttactctctctaggactggctgtatgaaggcacgtcccaaatctcc	ctacc	3000
Db	2941	CTCCCCTCTACTCTCTTAGGACTGGCTGTATGAAGGCACTGCCCAAA	ATTTCCCCCTACC	3000
QY	3001	cccaacttcccatacccccaactttcccacacagctcccaacacctgtttg	ggagctact	3060
Db	3001	CCCAACTTTCCCTACCCCAACTTTTCCCCACCACTCCACAACCTCTGT	TGGAGCTACT	3060
QY	3061	gcaggaccagaagcacaaagtgcggtttcccgaagcctttgtccatctcag	ccccacaggt	3120
Db	3061	GCAGGACACAGAAGCACAAAGTCGGGTTTCCCAAGGCTTTGTCCAFCT	CAGCCCCACAGT	3120
QY	3121	atctcgtcttggggaattctcacacagaaactcaggagcacccccctgcct	gagctaa	3180
Db	3121	ATATCTGCTTGGGGAATCTCACAGAAACTCAGGAGCACCCCTGCCCT	GAGCTAAGG	3180
QY	3181	gaggtcttatctctcagggggggtttaagtcgcgttttgcaataatgtcgt	ctttatttt	3240
Db	3181	GAGGTCTTATCTCTCAGGGGGGGTTTAAAGTGGCGGTTTGAATAATGT	CGTCTTATTATT	3240
QY	3241	tagcgggggtgaatattttatactgaatgaagcacaatcagagttaagt	tttatggtaca	3300
Db	3241	TAGCGGGGTGAATATTATTATCTGTAAAGTGAGCAATCAGAGTAAATG	TTTATGCTGACA	3300
QY	3301	aaattaaaggcttcttcttatgttttaaaaaaataaaaaaataaaaaaata	aaaaaata	3360

```

Db 3301 AAATTAAAGCCTTCTTATATGTTTAAAAAATAAAAAAAAAAAAAAAAAAAAAA 3360
|||||
Qy 3361 aaaaaaaaraaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaa 3410
|||||
Db 3361 AAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3410
|||||

RESULT 2
US-09-030-607-110
; Sequence 110, Application US/09030607
; Patent No. 6262245
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AN
; NUMBER OF SEQUENCES: 224
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030,607
; FILING DATE: 25-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.427C3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 110:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3410 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
; US-09-030-607-110

```

	Query Match	100.0%;	Score 3409.6;	DB 4;	Length 3410;
	Best Local Similarity	100.0%;	Pred. No. 0;	Mismatches	0;
	Matches 3410;	Conservative 0;	Gaps	Indels	0;
Oy	1	gggaaccagcctgcacgcgctgggtccgggtgacagcgcgctcggccaggatctga	60		
Db	1	GGGAACCAAGCTGCACGCGTGGCTCCGGGTGACAGCGCGCCTCGCCAGGATCTGA	60		
Oy	61	gtgatgagacgtgtcccactgaagtgccccacagcacagagtggttgaacatggctgag	120		
Db	61	GTGATGAGACGTGTCCCACACTAGGTGCCCCACACAGCAGGTTGTGAGCATGGGCTGAG	120		
Oy	121	aagctggaccggcaccaaaaggctggcgagaatatggcgccctggctgattccttaggcagt	180		
Db	121	AAGCTGGACCGCACCAAAGSGCTGGCAGAAATGGCGCCTGGCTGATTCTTAGGCAGTT	180		
Oy	181	ggcggcagacaaggagagagccgcagcttctggacagacagccagacgaagcagttctg	240		
Db	181	GSCGGCACAAGGAGGAGAGGCCCGCAGCTCTGGAGCAGAGCCGACGACGAACAGCTTCG	240		
Oy	241	qaqtqcctgaacggccccctgagccctaccgcgcttggcccactatggttcgaaggctgtg	300		

Db 1 GGGAAACACCGCTGCACGGCGTGGCTCGGGTGACAGCGCGCGCGCTCGGCCAGGATCTGA 60
Qy 61 gtgatgagacgtgtcccccactgagtgcccccacagcagcagtggtgttgagcatgagcag 120
Db 61 GTGATGAGACGTGTCCCCACTGAGGTGCCCCACAGCAGCAGGTGTGAGCATATGGCTGAG 120
Qy 121 aagctgagccggcaccacaaagggtgagcagaaatggggccctggtgattcctaagaagtt 180
Db 121 AAGCTGAGACCGGCACCAAGAGGCTGGCAGAAATGGGCGCTGGGTGATTCCTAGGCAAGT 180
Qy 181 ggcgcagcaaggagagcccgacgttcttgagcagagcccgagacgaagcagttctg 240
Db 181 GCGGCGACCAAGAGAGAGCCCGCAGCTTCTGGAGCAGACCCGAGAGCAAGTCTG 240
Qy 241 gagtgcctgaacggccccctgagccccctaccgcctggccccctatggtccagagcgtgtg 300
Db 241 GAGTGCCTGAACGGCGCCCTGAGCCCTACCGCCCTGGCCCACTATGTTCCAGAGGCTGTG 300
Qy 301 ggtgagccgctgctgagcgaacggaaagccagcctcttggtggtcaacctgtaacctt 360
Db 301 GGTGAGCGCGCTGTGGCGCACCGGAAGGCCAGCTCTGTGTGTCACCTGCTTAACCTT 360
Qy 361 tggcctgaggtgtgtttggcgcagcgcacacctatgtgcgcctctgtgtggaagt 420
Db 361 TGGCTGGAGGTGTGTTTGGCGCGCAGGCAATCACCTATGTGCGGCTCTGCTGCTGGAGT 420
Qy 421 gggggtagagagaagtcaagaccatggtgtggtggcattggtccagtgctggccctgggt 480
Db 421 GGGGTAGAGGAGAAGTTCATGACCATGGTGTGGGCATTTGGTCCAGTGTGGGCTGGT 480
Qy 481 ctgtgtcccgctctcctaggtcagccagtgaccactggcgtggaagcgtatggcccgccg 540
Db 481 CTGTGTCCCGCTCTAGGCTCAGCGAGTGACACTTGGCGGTGGACGCTATGGCCCGCGCG 540
Qy 541 gcccttcactgtggcaactgtcttggcgcacctcgtgtagcctcttctcaccacgaagg 600
Db 541 GCCCTTCATCTGGGCACGTCTTGGGCATCCTGCTGAGCCCTTCTTCTCATCCCAAGGC 600
Qy 601 cggtggctagcaggtgtgtgtcccggaatccacggccccctgagcgtggcaactgctcat 660
Db 601 CGGCTGGCTAGCAGGGTGTGTGCCCGATCCAGGCCCTCCAGGCCCTGGAGCTGGCAT 660
Qy 661 cctgggctggggtgtgactctgtggcaggtgtgttcaactcactcactggagccct 720
Db 661 CCTGGGCTGGGGGTGTGTGTGGCCAGGTGTCTACTCCACCTGGAGGCCCT 720
Qy 721 gctctctgacctcttccgggaccggaccactgtgcgcaggcctactctgtctatgctt 780
Db 721 GCTCTCTGACCTCTTCCGGGACCGGACCACTGTGCGCAGGCTACTCTGTCTATGCCCT 780
Qy 781 catgatacgtcttggggctgctgggttaacctcctcctgctgcccattgactggacacag 840
Db 781 CATGATACGTCTTGGGGCTGCCCTGGGTACTCTCTGCTGCCATTTGACTGGGACACAG 840
Qy 841 tgccctggccccctacctggcaccagagagtgctcttggcctgtcaccctcat 900
Db 841 TGCCCTGGCCCCCTTACCTTGGGCACCCAGAGGAGTGCCTCTTGTGGCCTGCTCACCTCAT 900
Qy 901 ctctctcacttcgttagcagccacactgctggtggtgctgagaggcagcgtgggccccac 960
Db 901 CTCTCTCACTTCCGTAGCAGCCACACTGCTGGTGGCTGAGGAGGCGGCTGGGCCCCAC 960
Qy 961 cgagccagcagaagggtgtcgggccccctctgtcgcccccaactgtctccatgcccgggc 1020
Db 961 CGAGCCAGCAGAAGGGCTGTGGGGCCCCCTCTCTGTGTGGCCCCACTGCTGTCCATGGCCGGG 1020
Qy 1021 ccgcttgcttccggaaacctgggcgcctcgtcttccccgggtgcaccagctgtgtgcg 1080
Db 1021 CCGCTTGGCTTCCGGAACCTTGGGGCCCCCTGCTTCCCGGGCTGCACCAAGCTGTGTGCGG 1080
Qy 1081 catgccccgcacctgcccggctcttctgtggtgagctgtgacgtggatggcaactcat 1140
Db 1081 CATGCCCGCACCCCTGCGCGCGGCTCTTGTGGCTGAGCTGTGAGCTGTGAGTGGCACTCAT 1140

Qy 1141 gaccttcaactgttttaacgaatttcgtggcgagggctgtaccaggcgctgcccag 1200
Db 1141 GACCTTCACTGCTGTTTTACACGGATTTCTGGCGAGGGCTGTACCAGGGCTGCCAG 1200
Qy 1201 agctgagccgggacacgagcccgagacactatgatgaaggcgttcggatgggcagcct 1260
Db 1201 AGCTGACCGGGACACCGAGCGCCCGAGACACTATGATGAAGGCGTTCGGATGGCAGCT 1260
Qy 1261 ggggcttctcctgagtgccactctccctggctctctctctctggtcatggaaccggctggt 1320
Db 1261 GGGCTCTTCTGCACTGCGCCATCTCCCTGGTCTTCTCTGTGCTATGAGCCGGCTGGT 1320
Qy 1321 gcaagcattcggcaactcagcagctctatttggccagtgtagcagcttccctgtggctgc 1380
Db 1321 GCAGCGATTCGGCACTCGAGCAGTCTATTGTGCCAGTGTGGCAGCTTTCCTGTGGCTGC 1380
Qy 1381 cgtgtcacatgcctgtcccacagtgggccgtggtgacagcttcacgccgcctcacccg 1440
Db 1381 CGGTGCCACATGCCTGTCCACAGTGTGGCGGTGGTGCAGCTTTCAGCGGCCCTACCGG 1440
Qy 1441 gttcaacttctcagccctgcagatccttgcctacacactggcctccctctacacccggga 1500
Db 1441 GTTCACCTTCTACGCCCTGCAGATCCTTGCCCTACACACTGGCCCTCCCTTACACCGGGA 1500
Qy 1501 gaaacaggtgttctcgtcccaataccagaggggacactggaggtgctagcagtgagacag 1560
Db 1501 GAAGCAGGTGTCTGCCCCAAATACCGAGGGGACACTTGGAGTGTCTAGCAGTGGAGACAG 1560
Qy 1561 cctgatgacagcttctcgtccagccctaaagcctggagctcccttccctaaatggacagct 1620
Db 1561 CCTGATGACCAGCTTCTGCGCAGGCCCTAAGCCTGGAGCTCCCTTCCCTAATGGACAGT 1620
Qy 1621 ggggtcgtggaggcagtggtcgtcctcactcaccgcgcctcgcgggagcctgctgctg 1680
Db 1621 GGGTGTGGAGGCACTGCGCTTCCACCTTCCACCCGCGCTCTGCGGGGCTCTGCGCTG 1680
Qy 1681 tgatgtctcgtacgtgtggtggtggtgagccacagagccaggggtggttccggggcgg 1740
Db 1681 TGATGTCTCCGTACTGTGTGTGGTGGTGAGCCACCCAGGAGGAGGTGTTCGGGGCGG 1740
Qy 1741 gggcatcgtcgtggacctcgccatcctcctggatagtgcttctcgtgtcccaagggtgcccc 1800
Db 1741 GGGCATCTGCTGACCTCGCCATCTCTGGATAGTGCCTTCTGCTGTCCCAGGTGGCCCC 1800
Qy 1801 atccctgttatgggtccattgtccagctcagcagcagctcctcactcactataatggtctc 1860
Db 1801 ATCCCTGTTTATGGGCTCCATTTGCCAGCTCAGCCAGTCTCTACTGCTATATGGTGTCT 1860
Qy 1861 tgcgcaggcctgggtcgtgcgcatttactttgtacacaggtagttatttgacaagag 1920
Db 1861 TGCCGCGAGGCTGGGTCTGGTGGCCATTTACTTTGCTACACAGGTAGTATTGTACAAGAG 1920
Qy 1921 cgacttggccaaaaactacacgagtagaaaaacttcacagacattgggggtgagggcctgct 1980
Db 1921 CGACTTGGCCAAATACTCAGCGTAGAAAACCTTCCAGCACATTTGGGGTGGAGGGCTGGCT 1980
Qy 1981 cactgggtcccagctcccgcctcctgttagcccatggggtgctggcggtgctggcgccaggt 2040
Db 1981 CACTGGGTCCCAGCTCCCCTGCTCTGTGTAGCCCCATGAGGGGTGCGGGCTGGCCGCCAGT 2040
Qy 2041 tctgttgtccaaaagtaatgtgtgtctctgtgtccaccctgtgtgtgctgaggtgcgtga 2100
Db 2041 TTCCTGTTGTCGCCAAAGTAATGTGGCTCTCTGCTGCCACCTGCTGCTGCTGAGGTGCGTA 2100
Qy 2101 gctgcacagctgggggtggggcgtccctctcctctctcctccagctctcagggctgctg 2160
Db 2101 GCTGCACAGCTGGGGGTGGGGCTCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
Qy 2161 actgagggccttcaagggggtttcagctgtgactatacacaggagggcacagaagggtctcc 2220
Db 2161 ACTGAGGGCTTCCAAAGGGGTTTTCAGTCTGAGCTTATACAGGGAGGGCCAGAGGGCTCC 2220

Result No.	Score	Query Match	Length	DB	ID	Description	
1	3409.6	100.0	3410	4	US-09-020-956-110	Sequence 110, Appl	
2	3409.6	100.0	3410	4	US-09-030-607-110	Sequence 110, Appl	
3	3409.6	100.0	3410	4	US-09-439-313-110	Sequence 110, Appl	
4	2136.4	62.7	2152	3	US-09-071-710-16	Sequence 16, Appl	
5	2136.4	62.7	2152	4	US-09-525-397-16	Sequence 16, Appl	
6	2114.8	62.0	2143	3	US-09-071-710-15	Sequence 15, Appl	
7	2114.8	62.0	2143	4	US-09-525-397-15	Sequence 15, Appl	
8	673.4	19.7	789	4	US-09-020-956-10	Sequence 10, Appl	
9	673.4	19.7	789	4	US-09-030-607-10	Sequence 10, Appl	
10	673.4	19.7	789	4	US-09-439-313-10	Sequence 10, Appl	
11	603	17.7	772	4	US-09-020-956-11	Sequence 11, Appl	
12	603	17.7	772	4	US-09-030-607-11	Sequence 11, Appl	
13	603	17.7	772	4	US-09-439-313-11	Sequence 11, Appl	
14	319.8	9.4	342	3	US-09-071-710-8	Sequence 8, Appl	
15	319.8	9.4	342	4	US-09-525-397-8	Sequence 8, Appl	
16	291	8.5	294	3	US-09-071-710-12	Sequence 12, Appl	
17	291	8.5	294	4	US-09-525-397-12	Sequence 12, Appl	
18	287	8.4	288	3	US-09-071-710-10	Sequence 10, Appl	
19	287	8.4	288	4	US-09-525-397-10	Sequence 10, Appl	
20	270	7.9	272	3	US-09-071-710-11	Sequence 11, Appl	
21	270	7.9	272	4	US-09-525-397-11	Sequence 11, Appl	
22	265	7.8	265	3	US-09-071-710-9	Sequence 9, Appl	
23	265	7.8	265	4	US-09-525-397-9	Sequence 9, Appl	
24	256.4	7.5	258	3	US-09-071-710-1	Sequence 1, Appl	
25	256.4	7.5	258	4	US-09-525-397-1	Sequence 1, Appl	
26	254	7.4	255	3	US-09-071-710-3	Sequence 3, Appl	
27	254	7.4	255	4	US-09-525-397-3	Sequence 3, Appl	


```
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-483-672A-l10

Query Match      100.0%; Score 3409.6; DB 18; Length 3410;
Best Local Similarity 100.08%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 gggaaaccagcgtgcacgcgtgctccgggtgacagccgcgcgcctcgccaggatctga 60
   |||
Db 1 gggaaaccagcgtgcacgcgtgctccgggtgacagccgcgcgcctcgccaggatctga 60

QY 61 gtgatagacgtgtcccaactgagtgccccacagcagcaggtgttgagcagctgag 120
   |||
Db 61 gtgatagacgtgtcccaactgagtgccccacagcagcaggtgttgagcagctgag 120

QY 121 aaqctgagccggcaccaaaggctggcagaaatggcgctggctgattccctaggcagt 180
   |||
Db 121 aaqctgagccggcaccaaaggctggcagaaatggcgctggctgattccctaggcagt 180

QY 181 ggcggcagcaaggagagggcgagcttctggagcagagccgagcagaaagcagttctg 240
   |||
Db 181 ggcggcagcaaggagagggcgagcttctggagcagagccgagcagaaagcagttctg 240

QY 241 gagtgcctgaacggccccctgagccactaccgcctggccccactatggtccagagcgttg 300
   |||
Db 241 gagtgcctgaacggccccctgagccactaccgcctggccccactatggtccagagcgttg 300

QY 301 ggtgagccctctgctggcgcacggaaagccagctcttggctgggtcaacctgtcaacct 360
   |||
Db 301 ggtgagccctctgctggcgcacggaaagccagctcttggctgggtcaacctgtcaacct 360

QY 361 tggcctggagggtgtgttggccgcagggaatcacctatgtgcgcctctgctgctggaagt 420
   |||
Db 361 tggcctggagggtgtgttggccgcagggaatcacctatgtgcgcctctgctgctggaagt 420

QY 421 gggggtagaggagaagtcatgacctggtgctgggcatgtgtccagtgctggcctggt 480
   |||
Db 421 gggggtagaggagaagtcatgacctggtgctgggcatgtgtgtccagtgctggcctggt 480

QY 481 ctgtgtcccgctctcctaggtcagcagtgaccactggcgtagcagctatggccgcgcgcg 540
   |||
Db 481 ctgtgtcccgctctcctaggtcagcagtgaccactggcgtagcagctatggccgcgcgcg 540

QY 541 gcecttcacttgggcaactgccttggggaatcctgtgagcctcttctatcccaaggcg 600
   |||
Db 541 gcecttcacttgggcaactgccttggggaatcctgtgagcctcttctatcccaaggcg 600

QY 601 cggctggctagcagggtcgtgcccgatcccaggtcccagccccctggagctggcactgctcat 660
   |||
Db 601 cggctggctagcagggtcgtgcccgatcccaggtcccagccccctggagctggcactgctcat 660

QY 661 cctggcgctggggctgctggaactctgtggccaggtgtgtcttcaactcgaactggagcct 720
   |||
Db 661 cctggcgctggggctgctggaactctgtggccaggtgtgtgtcttcaactcgaactggagcct 720

QY 721 gctctctgacctcttcgggaaccggaccactgtgcgaaggcctactctgtctatgctctt 780
   |||
Db 721 gctctctgacctcttcgggaaccggaccactgtgcgaaggcctactctgtctatgctctt 780

QY 781 catgatcagctcttggggctgctgggttaacctcctgctgctgctcattgactgggacacacag 840
   |||
Db 781 catgatcagctcttggggctgctgggttaacctcctgctgctgctcattgactgggacacacag 840

QY 841 tggcctggccccctaacctgggcaccagagaggtgctcttcttggcctgctcacccctcat 900
   |||
Db 841 tggcctggccccctaacctgggcaccagagaggtgctcttcttggcctgctcacccctcat 900

QY 901 cttctcactcgtgtagcagcacactgctggtgctgagggagcagcgtggccccac 960
   |||
Db 901 cttctcactcgtgtagcagcacactgctggtgctgagggagcagcgtggccccac 960
```

```
Db 901 cttctcactcgtgtagcagcacactgctggtgctgagggagcagcgtggccccac 960
QY 961 cgagccagcagaaggcgtgctggccccctccttctgcccactgctcctcagtcgagcg 1020
   |||
Db 961 cgagccagcagaaggcgtgctggccccctccttctgcccactgctcctcagtcgagcg 1020

QY 1021 ccgcttgctttcccgaaacctggggcctgcttccccggctgacccagctgtgctgcg 1080
   |||
Db 1021 ccgcttgctttcccgaaacctggggcctgcttccccggctgacccagctgtgctgcg 1080

QY 1081 catgccccgcacccctgccccggctcttcgctgagctgtgacagctggatggagcactcat 1140
   |||
Db 1081 catgccccgcacccctgccccggctcttcgctgagctgtgacagctggatggagcactcat 1140

QY 1141 gaccttcacgtgttttacacgatttctggggcagggctgtaccagggcgctgccacag 1200
   |||
Db 1141 gaccttcacgtgttttacacgatttctggggcagggctgtaccagggcgctgccacag 1200

QY 1201 agctgagccgggcaaccgagggcccgagacactatgatgaaggcgttcggatgggcagcct 1260
   |||
Db 1201 agctgagccgggcaaccgagggcccgagacactatgatgaaggcgttcggatgggcagcct 1260

QY 1261 ggggctgttcctgagtcgagtcgccaatctcctggtcttctctctgctcagtcgacggcgtgct 1320
   |||
Db 1261 ggggctgttcctgagtcgccaatctcctggtcttctctctgctcagtcgacggcgtgct 1320

QY 1321 gcagcatttcgcactcgcagcagctatttggccagtggtggcagcttccctgtgtgtgc 1380
   |||
Db 1321 gcagcatttcgcactcgcagcagctatttggccagtggtggcagcttccctgtgtgtgc 1380

QY 1381 cgggtccacatgcctgtcccacagtggtggcgtgtgacagcttcagcgcgcctcacgg 1440
   |||
Db 1381 cgggtccacatgcctgtcccacagtggtggcgtgtgacagcttcagcgcgcctcacgg 1440

QY 1441 gttacaccttcagccctgcagatcctgcctacacactgacctccctctaccacggga 1500
   |||
Db 1441 gttacaccttcagccctgcagatcctgcctacacactgacctccctctaccacggga 1500

QY 1501 gaagcaggtgttcctgcccacaaataccgaggggacactggagtgctagcagtgagacag 1560
   |||
Db 1501 gaagcaggtgttcctgcccacaaataccgaggggacactggagtgctagcagtgagacag 1560

QY 1561 cctgatgaccagcttctctgccaggcctaagcctgagctgacctccctccctaatggacagt 1620
   |||
Db 1561 cctgatgaccagcttctctgccaggcctaagcctgagctgacctccctccctaatggacagt 1620

QY 1621 ggggtcctgagcagcagtcctgctccacctccacccgcctctcgggggcctctgctctg 1680
   |||
Db 1621 ggggtcctgagcagcagtcctgctccacctccacccgcctctcgggggcctctgctctg 1680

QY 1681 tgatgtctccgtacgtgtggtggtgagccccaccagggcggtgttccggggcg 1740
   |||
Db 1681 tgatgtctccgtacgtgtggtggtgagccccaccagggcggtgttccggggcg 1740

QY 1741 gggcatcgtcctggacctggccactcactgga tagtgccttctctgctgccagtggtgcccc 1800
   |||
Db 1741 gggcatcgtcctggacctggccactcactgga tagtgccttctctgctgccagtggtgcccc 1800

QY 1801 atccctgtttatgggctccattgtccagtcagcagctctgtcactgctctatgtgttc 1860
   |||
Db 1801 atccctgtttatgggctccattgtccagtcagcagctctgtcactgctctatgtgttc 1860

QY 1861 tgcgcagggcctggctcgtggccatttaacttctgacacaggtagttatttgcacagag 1920
   |||
Db 1861 tgcgcagggcctggctcgtggccatttaacttctgacacaggtagttatttgcacagag 1920

QY 1921 cgacttggccaaaataactcagcgttagaaaacttccagcacattgggtgagggcctgct 1980
   |||
Db 1921 cgacttggccaaaataactcagcgttagaaaacttccagcacattgggtgagggcctgct 1980

QY 1981 cactgggttccagctccccgcctcctgttagccccatggggtgcccggctggcccagct 2040
   |||
Db 1981 cactgggttccagctccccgcctcctgttagccccatggggtgcccggctggcccagct 2040
```

```
Qy 1621 ggggtgctgagcgagctgctgctccacaccccgctctgctgctgctgctgctg 1680
Db 1621 ggggtgctgagcgagctgctgctccacaccccgctctgctgctgctgctgctg 1680
Qy 1681 tgatgtctccgtacgtgtggtggtggtgagccacccagcgaggtgttccggcg 1740
Db 1681 tgatgtctccgtacgtgtggtggtggtgagccacccagcgaggtgttccggcg 1740
Qy 1741 ggggaatcgctgagcctcgcatctccctggtagtgcttctctgctgctccaggtggcc 1800
Db 1741 ggggaatcgctgagcctcgcatctccctggtagtgcttctctgctgctccaggtggcc 1800
Qy 1801 atccctgtttatgggtccatctgctccagctccagcctgctgctgctgctgctgctg 1860
Db 1801 atccctgtttatgggtccatctgctccagctccagcctgctgctgctgctgctgctg 1860
Qy 1861 tgcgcagcctgagctgctgctgctgctgctgctgctgctgctgctgctgctgctg 1920
Db 1861 tgcgcagcctgagctgctgctgctgctgctgctgctgctgctgctgctgctgctg 1920
Qy 1921 cgacttggccaaataactcagcgttagaatactccagcacattgggtggagggcctgct 1980
Db 1921 cgacttggccaaataactcagcgttagaatactccagcacattgggtggagggcctgct 1980
Qy 1981 cactggttccagctcccgctctctgttagcccatgggctgctgctgctgctgctgct 2040
Db 1981 cactggttccagctcccgctctctgttagcccatgggctgctgctgctgctgctgct 2040
Qy 2041 ttctgttctgcgcaagttaattggtctctgctgctgctgctgctgctgctgctgctg 2100
Db 2041 ttctgttctgcgcaagttaattggtctctgctgctgctgctgctgctgctgctgctg 2100
Qy 2101 gctgcacagctggggctggggctccctctctctctctctctctctctctctctctct 2160
Db 2101 gctgcacagctggggctggggctccctctctctctctctctctctctctctctctct 2160
Qy 2161 actgagggcctccaaagggtttcaagtctgagcttatacagggagggcagaaaggctcc 2220
Db 2161 actgagggcctccaaagggtttcaagtctgagcttatacagggagggcagaaaggctcc 2220
Qy 2221 atgcactggaatgcgggagctgctgaggtgattaccagctcaggggttaacagctagc 2280
Db 2221 atgcactggaatgcgggagctgctgaggtgattaccagctcaggggttaacagctagc 2280
Qy 2281 ctccctagttgagacacacttagagaggggttttggagctggaataaactcagctcacctg 2340
Db 2281 ctccctagttgagacacacttagagaggggttttggagctggaataaactcagctcacctg 2340
Qy 2341 gtttcccatctcgaagcccttaacctgcagcttcgtttaaattagctctctgcatggag 2400
Db 2341 gtttcccatctcgaagcccttaacctgcagcttcgtttaaattagctctctgcatggag 2400
Qy 2401 ttcttaggatgaacactctccatggtgatttgaacatatgaactattttaggggaaga 2460
Db 2401 ttcttaggatgaacactctccatggtgatttgaacatatgaactattttaggggaaga 2460
Qy 2461 gtcctgaggggcaacacacagaaacaggtccctccagccacagcaactgctttttgct 2520
Db 2461 gtcctgaggggcaacacacagaaacaggtccctccagccacagcaactgctttttgct 2520
Qy 2521 gatcacccctcttacccttttaccaggtatgaggtgctgctgctgctgctgctgctgct 2580
Db 2521 gatcacccctcttacccttttaccaggtatgaggtgctgctgctgctgctgctgctgct 2580
Qy 2581 cagagacacagcatttaataatttaactatttatttaacaaagtagaagggaatccat 2640
Db 2581 cagagacacagcatttaataatttaactatttatttaacaaagtagaagggaatccat 2640
Qy 2641 tgcctagcttttctgtgtgtgtctataatttgggtgaggtggggatccccacaatca 2700
Db 2641 tgcctagcttttctgtgtgtgtctataatttgggtgaggtggggatccccacaatca 2700
Qy 2701 ggtccctcagatagctggtgctgattgggtgatcattgccagaatcttctctcctgggt 2760
```

```
Db 2701 ggtccctcagatagctggtgctgattgggtgctgattgcagaaatcttctctcctgggt 2760
Qy 2761 ctggcccccaaaatgcctaaaccagaccttggaatttactactatcccaatgataat 2820
Db 2761 ctggcccccaaaatgcctaaaccagaccttggaatttactactatcccaatgataat 2820
Qy 2821 tccaaatgctgtttaccacaagggttaggggttggaagaaagtagaggtgggttcaggt 2880
Db 2821 tccaaatgctgtttaccacaagggttaggggttggaagaaagtagaggtgggttcaggt 2880
Qy 2881 ctcaacggcttcccttaaccacccctctctcttggccacgctggttcccccaactcca 2940
Db 2881 ctcaacggcttcccttaaccacccctctctcttggccacgctggttcccccaactcca 2940
Qy 2941 ctccctctactctctctaggtggtgctgagggcactgcccacaaatttccccctacc 3000
Db 2941 ctccctctactctctctaggtggtgctgagggcactgcccacaaatttccccctacc 3000
Qy 3001 cccaaatttccctaccccaacttccccccacagctccacacccctgtttggagctact 3060
Db 3001 cccaaatttccctaccccaacttccccccacagctccacacccctgtttggagctact 3060
Qy 3061 gcaggaccagaagcaaaagtcgggtttcccaagcctttgtccatctcagccccaggt 3120
Db 3061 gcaggaccagaagcaaaagtcgggtttcccaagcctttgtccatctcagccccaggt 3120
Qy 3121 atatctgtgttggggaattctcacagaactcagagcagccccctgctgagctaaag 3180
Db 3121 atatctgtgttggggaattctcacagaactcagagcagccccctgctgagctaaag 3180
Qy 3181 gaggcttactctcaggggggttttaagtgcggttttgcaataatgctgcttattatt 3240
Db 3181 gaggcttactctcaggggggttttaagtgcggttttgcaataatgctgcttattatt 3240
Qy 3241 tagcggggtgaatttttatactgtaagtgaagtaagtaagtaagtaagtaagtaagta 3300
Db 3241 tagcggggtgaatttttatactgtaagtgaagtaagtaagtaagtaagtaagtaagta 3300
Qy 3301 aaataaagcttcttcttatagttttaaaaaaataaaaaaataaaaaaataaaaaa 3360
Db 3301 aaataaagcttcttcttatagttttaaaaaaataaaaaaataaaaaaataaaaaa 3360
Qy 3361 aaaaaaaraaaaaaataaaaaaataaaaaaataaaaaaataaaaaaataaaaaa 3410
Db 3361 aaaaaaaraaaaaaataaaaaaataaaaaaataaaaaaataaaaaaataaaaaa 3410
```

RESULT 15

```
US-09-483-672A-110
; Sequence 110, Application US/09483672A
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang yuqi
; APPLICANT: Reed, Steven G.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Solk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Wang, Aijun
; APPLICANT: Meagher, Madeleine
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.42711C11
; CURRENT APPLICATION NUMBER: US/09/483.672A
; CURRENT FILING DATE: 2000-01-14
; NUMBER OF SEQ ID NOS: 590
; SOFTWARE: FastSeq for Windows Version 3.0
```


Db 1141 gaccttcacgctgttttacacgagatttcgtggcgaggggctgtacacagggcgtgccag 1200
Qy 1201 agctgaaccgggcaaccagggcccgagagacactatgatgaaggcgttcggatgggcagcct 1260
Db 1201 agctgaaccgggcaaccagggcccgagagacactatgatgaaggcgttcggatgggcagcct 1260
Qy 1261 gggcgtgttcctcagtcagtcgcccactccctcgtgttcctcctcgtcgtacacggcgtgggt 1320
Db 1261 gggcgtgttcctcagtcagtcgcccactccctcgtgttcctcctcgtcgtacacggcgtgggt 1320
Qy 1321 gcagcattcggccactgcagcagtcattttgcccagtcgtggcagcttccctcgtgcgtc 1380
Db 1321 gcagcattcggccactgcagcagtcattttgcccagtcgtggcagcttccctcgtgcgtc 1380
Qy 1381 cgggtccacatgcgtccacagctgtgcgtgtgtgacagcttcagccgcctcacccg 1440
Db 1381 cgggtccacatgcgtccacagctgtgcgtgtgtgacagcttcagccgcctcacccg 1440
Qy 1441 gttcaccttcacgctgcagctccctgcctacacactggcctccctcctacacccggga 1500
Db 1441 gttcaccttcacgctgcagctccctgcctacacactggcctccctcctacacccggga 1500
Qy 1501 gaagcagtgcttcgtcccaataccagaggagacactggaagtgctagcagtgagacag 1560
Db 1501 gaagcagtgcttcgtcccaataccagaggagacactggaagtgctagcagtgagacag 1560
Qy 1561 cctgatgacagcttcctgcagagccctaaagcctggagctccctcctcctaaatgacacgt 1620
Db 1561 cctgatgacagcttcctgcagagccctaaagcctggagctccctcctcctaaatgacacgt 1620
Qy 1621 ggggtgctggagcagtggtcgtcccaactccacccgcgtcctgcggggcctcgtgcctg 1680
Db 1621 ggggtgctggagcagtggtcgtcccaactccacccgcgtcctgcggggcctcgtgcctg 1680
Qy 1681 tgatgtccctcagctggtggtgggtgagccacagagccaggggtggttcggggccg 1740
Db 1681 tgatgtccctcagctggtggtgggtgagccacagagccaggggtggttcggggccg 1740
Qy 1741 gggcactgcctggacctgcgcactcctggtatgtagtgcctcctcgtcgtcccggtggccc 1800
Db 1741 gggcactgcctggacctgcgcactcctggtatgtagtgcctcctcgtcgtcccggtggccc 1800
Qy 1801 atccctgttatggctccatgtccagctcagccagctgcacagctcctcactgcctatggtgc 1860
Db 1801 atccctgttatggctccatgtccagctcagccagctgcacagctcctcactgcctatggtgc 1860
Qy 1861 tggccagggcctggctggtgctgcatttactttgctacacaggtagttattgacaagag 1920
Db 1861 tggccagggcctggctggtgctgcatttactttgctacacaggtagttattgacaagag 1920
Qy 1921 cgactggccaaatactcagcgtagaanaactccagacattgggtgagggcctgcct 1980
Db 1921 cgactggccaaatactcagcgtagaanaactccagacattgggtgagggcctgcct 1980
Qy 1981 cactgggtcccgactcccgctcctgttagcccatggggtgcggcggcgtggcccgact 2040
Db 1981 cactgggtcccgactcccgctcctgttagcccatggggtgcggcggcgtggcccgact 2040
Qy 2041 ttctgtgtgcgaagtaatgtgctcctcctcctcctcctcctcctcctcctcctcctcctc 2100
Db 2041 ttctgtgtgcgaagtaatgtgctcctcctcctcctcctcctcctcctcctcctcctcctc 2100
Qy 2101 gctgcacagctggggcgtggggcgtccctcctcctcctcctcctcctcctcctcctcctcct 2160
Db 2101 gctgcacagctggggcgtggggcgtccctcctcctcctcctcctcctcctcctcctcctcct 2160
Qy 2161 actggaggccttccaaagggggttcagctcgtgacattacagggggcgaagggcctcc 2220
Db 2161 actggaggccttccaaagggggttcagctcgtgacattacagggggcgaagggcctcc 2220
Qy 2221 atgcactggaatgcgggacactgcaggtgattaccaggtcaggggttaacagctagc 2280
Db 2221 atgcactggaatgcgggacactgcaggtgattaccaggtcaggggttaacagctagc 2280

Qy 2281 ctctagttgagacacacactagagaagggtttttgggagctgaataaaactcagtcacctg 2340
Db 2281 ctctagttgagacacacactagagaagggtttttgggagctgaataaaactcagtcacctg 2340
Qy 2341 gtttcccatctcctaagcccttaacctcagcttgcgtttaaagtagctcttgcagtgagg 2400
Db 2341 gtttcccatctcctaagcccttaacctcagcttgcgtttaaagtagctcttgcagtgagg 2400
Qy 2401 ttctaggtgaaacactcctccatgggtttgaaacatatgactattttgtagggggaaaga 2460
Db 2401 ttctaggtgaaacactcctccatgggtttgaaacatatgactattttgtagggggaaaga 2460
Qy 2461 gtcctgaggggcaacacacaaagaccaggtccctcagcccacagcactgtcttttgcct 2520
Db 2461 gtcctgaggggcaacacaaagaccaggtccctcagcccacagcactgtcttttgcct 2520
Qy 2521 gatccacccctccttacccttttaccatggtggtggtggtggtggtggtggtggtggtggt 2580
Db 2521 gatccacccctccttacccttttaccatggtggtggtggtggtggtggtggtggtggtggt 2580
Qy 2581 cagagacacagggcatttaaatatttaactattttaacaaagtagaagggaatccat 2640
Db 2581 cagagacacagggcatttaaatatttaactattttaacaaagtagaagggaatccat 2640
Qy 2641 tgcctgcttttgcgtggtggtcctaatatttgggttagggtggtggtggtggtggtggtggt 2700
Db 2641 tgcctgcttttgcgtggtggtcctaatatttgggttagggtggtggtggtggtggtggtggt 2700
Qy 2701 ggtccctgagatagctggtcattgggtgctcatttgcagaaatttcttctcctcctgggt 2760
Db 2701 ggtccctgagatagctggtcattgggtgctcatttgcagaaatttcttctcctcctgggt 2760
Qy 2761 ctggcccccacaaatgctaacccagacacttgaaatttactcactcctcccaaatgataat 2820
Db 2761 ctggcccccacaaatgctaacccagacacttgaaatttactcactcctcccaaatgataat 2820
Qy 2821 tccaaatgctgttaccacaaaggttagggttgaaggaaagtagagggtgggtggttccaggt 2880
Db 2821 tccaaatgctgttaccacaaaggttagggttgaaggaaagtagagggtgggtggttccaggt 2880
Qy 2881 ctcaacggcttccctaacccacccctcttcttggccacgctggttcccccacttcca 2940
Db 2881 ctcaacggcttccctaacccacccctcttcttggccacgctggttcccccacttcca 2940
Qy 2941 ctccctcctactcctcctagactgggtgatgaaggcactgcccacaaatttccctacc 3000
Db 2941 ctccctcctactcctcctagactgggtgatgaaggcactgcccacaaatttccctacc 3000
Qy 3001 cccaaacttccctaccacccacacttcccccacagctccacacccctggttggagctact 3060
Db 3001 cccaaacttccctaccacccacacttcccccacagctccacacccctggttggagctact 3060
Qy 3061 gcaggacagaagacacaaagtcgggtttcccaagccttgcctcctcagccccagagt 3120
Db 3061 gcaggacagaagacacaaagtcgggtttcccaagccttgcctcctcagccccagagt 3120
Qy 3121 atatctgcttggggaaatctcacacagaactcagagacacccctcctgcctgaagtaagg 3180
Db 3121 atatctgcttggggaaatctcacacagaactcagagacacccctcctgcctgaagtaagg 3180
Qy 3181 gaggcttatctcctcaggggggttttaagtgcgtttgcaataatgctcgtcttatttatt 3240
Db 3181 gaggcttatctcctcaggggggttttaagtgcgtttgcaataatgctcgtcttatttatt 3240
Qy 3241 tagcggggtgaatatttatactgtaagtgcagcaatcagagtaaatggttatggtgaca 3300
Db 3241 tagcggggtgaatatttatactgtaagtgcagcaatcagagtaaatggttatggtgaca 3300
Qy 3301 aaattaaagggttcttatatttatggttaaaaaaaataaaaaaaataaaaaaaataaaaaa 3360
Db 3301 aaattaaagggttcttatatttatggttaaaaaaaataaaaaaaataaaaaaaataaaaaa 3360

[illegible]

```

RESULT 13
US-09-352-616A-110
; GENERAL INFORMATION:
; APPLICANT: Dillon, Davin C.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang, Yuqi
; APPLICANT: Xu, Jiangchun
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE OF INVENTION: OF PROSTATE CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427C8
; CURRENT APPLICATION NUMBER: US/09/352,616A
; CURRENT FILING DATE: 1999-07-13
; NUMBER OF SEQ ID NOS: 472
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-352-616A-110

Query Match 100.0%; Score 3409.6; DB 17; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps

Qy 1 gggaaacagcctgcacgcgcgtgctgcgggtgacagccgcgcctcgcgcagatctga 60
Db 1 gggaaacagcctgcacgcgcgtgctgcgggtgacagccgcgcctcgcgcagatctga 60
Qy 61 gtaatgacactgtcccccactgaggtgcccacagcagcaggtgtgtgacatgggctgag 120

```

Db	601	cggctggtagcagggctgctgtgcccggatcccaggcccctggagctggcactgctcat	660
Qy	661	cctgggcgtggggctgctggaactctgtggccaggtgtgtctcactccactggaggccct	720
Db	661	cctgggcgtggggctgctggaactctgtggccaggtgtgtctcactccactggaggccct	720
Qy	721	gctctggaactcttccgggaaccggacacactgtcccgaggctactctgtctatgcttt	780
Db	721	gctctggaactcttccgggaaccggacacactgtcccgaggctactctgtctatgcttt	780
Qy	781	catgatcagctcttgggggtgctgggtgtacactctgctgccattgactgggacacag	840
Db	781	catgatcagctcttgggggtgctgggtgtacactctgctgccattgactgggacacag	840
Qy	841	tgcctggcccctactgtaggacccagagagtgctctttggcctgtctcacctcat	900
Db	841	tgcctggcccctactgtaggacccagagagtgctctttggcctgtctcacctcat	900
Qy	901	cttctcaactcgttagcagcacactcgtgtggtctgagaggcagcgtgggcccac	960
Db	901	cttctcaactcgttagcagcacactcgtgtggtctgagaggcagcgtgggcccac	960
Qy	961	cgaagcagagaaggctgtcgggcccctcttctgtgccacactgtctccatgcgggc	1020
Db	961	cgaagcagagaaggctgtcgggcccctcttctgtgccacactgtctccatgcgggc	1020
Qy	1021	ccgtctggcttccgaacactgggcctcgttcccccgctgcacacagctgtctccg	1080
Db	1021	ccgtctggcttccgaacactgggcctcgttcccccgctgcacacagctgtctccg	1080
Qy	1081	catgcccgcaacctgcgcgctcttcgtggctgagctgtgacgtggatggcaactcat	1140
Db	1081	catgcccgcaacctgcgcgctcttcgtggctgagctgtgacgtggatggcaactcat	1140
Qy	1141	gacctcaactgttttacacgatttcgtggcgaggggtgtacacaggcgtgccag	1200
Db	1141	gacctcaactgttttacacgatttcgtggcgaggggtgtacacaggcgtgccag	1200
Qy	1201	agctgagccggcacccagcccgagacactatgatgaaggcttcggaatggcagcct	1260
Db	1201	agctgagccggcacccagcccgagacactatgatgaaggcttcggaatggcagcct	1260
Qy	1261	ggggctgttctcagtgcgccatctccctggcttctctctgttcataggaccggctggt	1320
Db	1261	ggggctgttctcagtgcgccatctccctggcttctctctgttcataggaccggctggt	1320
Qy	1321	gcagcatttcggcaactcgagcagctatttggccagtggtgcagctttccctgtggctgc	1380
Db	1321	gcagcatttcggcaactcgagcagctatttggccagtggtgcagctttccctgtggctgc	1380
Qy	1381	cgggtgcaaatgctgtccacagtggtggcgtggtgacagcttcagccgcctcaacgg	1440
Db	1381	cgggtgcaaatgctgtccacagtggtggcgtggtgacagcttcagccgcctcaacgg	1440
Qy	1441	gttcaacttctcagcctcgagatcctgccttacaactggcctccctctaccaccggga	1500
Db	1441	gttcaacttctcagcctcgagatcctgccttacaactggcctccctctaccaccggga	1500
Qy	1501	gaagcaggtgttcctgcccacataccgaggggacactggaggtgtcagtgaggacag	1560
Db	1501	gaagcaggtgttcctgcccacataccgaggggacactggaggtgtcagtgaggacag	1560
Qy	1561	cctgatgaccagcttccctccaggccctaagcctgagctcccttccctaatgacacgt	1620
Db	1561	cctgatgaccagcttccctccaggccctaagcctgagctcccttccctaatgacacgt	1620
Qy	1621	gggtgtctggaggcagtggtcgtcccaactccaccccgctctgcggggcctctgctg	1680
Db	1621	gggtgtctggaggcagtggtcgtcccaactccaccccgctctgcggggcctctgctg	1680
Qy	1681	tgatgtctccgtacgtgtgtgtgggttgagcccaccagagccagggtgtgtccggcgg	1740
Db	1681	tgatgtctccgtacgtgtgtgtgggttgagcccaccagagccagggtgtgtccggcgg	1740

Qy	1741	gggcatctgctggaaocctgccaatctgcatagtgctctctctgctccacaggctggcccc	1800
Db	1741	gggcatctgctggaaocctgccaatctgcatagtgctctctctgctccacaggctggcccc	1800
Qy	1801	atccctgtttatgggtccattgtccagctcagccagctgtctcactgccctatattggtgc	1860
Db	1801	atccctgtttatgggtccattgtccagctcagccagctgtctcactgccctatattggtgc	1860
Qy	1861	tgcgcaggcctgggtctggctgcacatttactttgtctacacaggtagtatttgcacaag	1920
Db	1861	tgcgcaggcctgggtctggctgcacatttactttgtctacacaggtagtatttgcacaag	1920
Qy	1921	cgaattggccaaatactcagctagaaaaacttcagacacattgggtgtggaaggcctgcct	1980
Db	1921	cgaattggccaaatactcagctagaaaaacttcagacacattgggtgtggaaggcctgcct	1980
Qy	1981	cactgggtcccagctcccgcctcctgttagccccatggggtgcgcggctgctggccgcagct	2040
Db	1981	cactgggtcccagctcccgcctcctgttagccccatggggtgcgcggctgctggccgcagct	2040
Qy	2041	ttctgttctgcccanaagtaattgggtctctctgtctgccacccctgtgctcactgagtlgcgta	2100
Db	2041	ttctgttctgcccanaagtaattgggtctctctgtctgccacccctgtgctcactgagtlgcgta	2100
Qy	2101	gctcacacagctggggctggggcctccctctcctctctcccagctctctagggtcgtcctg	2160
Db	2101	gctcacacagctggggctggggcctccctctcctctctcccagctctctagggtcgtcctg	2160
Qy	2161	actggagcctccaaagggttttcagctcgtcacttatacagggagccagaaaggctccc	2220
Db	2161	actggagcctccaaagggttttcagctcgtcacttatacagggagccagaaaggctccc	2220
Qy	2221	atgcacttggaatcggggaactctgcaggtggattaccacagctcaggtttaacagctagc	2280
Db	2221	atgcacttggaatcggggaactctgcaggtggattaccacagctcaggtttaacagctagc	2280
Qy	2281	ctctcagttagacacacacttagaagaagggtttttgggagctgaaataaactcagtcaactg	2340
Db	2281	ctctcagttagacacacacttagaagaagggtttttgggagctgaaataaactcagtcaactg	2340
Qy	2341	gtttcccatctctaaagcccttaacctgcagcttcgttttaatgtagctcttgcatggag	2400
Db	2341	gtttcccatctctaaagcccttaacctgcagcttcgttttaatgtagctcttgcatggag	2400
Qy	2401	ttctcagatgaacaactcctccatgggtatttgaacatattgacttatttgttaggggaaga	2460
Db	2401	ttctcagatgaacaactcctccatgggtatttgaacatattgacttatttgttaggggaaga	2460
Qy	2461	gtcctgagggggcaacacacaaagcaagctcccctcagccacagcactgtcttttgcct	2520
Db	2461	gtcctgagggggcaacacacaaagcaagctcccctcagccacagcactgtcttttgcct	2520
Qy	2521	gatccacccccctcttaacttttatcagagatggcctgttggctctctctgttcccatca	2580
Db	2521	gatccacccccctcttaacttttatcagagatggcctgttggctctctctgttcccatca	2580
Qy	2581	cagagacacaggcatttaaataatttaacttatttatacaaaagttagaagggaatccat	2640
Db	2581	cagagacacaggcatttaaataatttaacttatttatacaaaagttagaagggaatccat	2640
Qy	2641	tgcctagttttctgtgttggtctctaataatttgggttaggggtgggggattccccacaatca	2700
Db	2641	tgcctagttttctgtgttggtctctaataatttgggttaggggtgggggattccccacaatca	2700
Qy	2701	ggtccccctgagatagctgggtcattgggtgtagcattgcagaaattcttctctctgggggt	2760
Db	2701	ggtccccctgagatagctgggtcattgggtgtagcattgcagaaattcttctctctgggggt	2760
Qy	2761	ctggcccccccaaatgctctaaccacaggaaccttggaaattctactcatcccaaatgataat	2820
Db	2761	ctggcccccccaaatgctctaaccacaggaaccttggaaattctactcatcccaaatgataat	2820

```

Db 2221 atgcaactggaatcggggactgcaggtggtatccaggctcagggttaacagctagc 2280
QY 2281 ctctagttgagacacacctagagaagggttttggagctgaataaacctcagctcaactg 2340
Db 2281 ctctagttgagacacaccttagagaagggttttggagctgaataaacctcagctcaactg 2340
QY 2341 gtttcccatctctaaagcccttaacctgcagctgcgttttaattagctctcttgcattggag 2400
Db 2341 gtttcccatctctaaagcccttaacctgcagctgcgttttaattagctctcttgcattggag 2400
QY 2401 ttctcaggatgaacacctctccatcctcaggtttggaatattgaacatatgacttatttggtaggaaga 2460
Db 2401 ttctcaggatgaacacctctccatcctcaggtttggaatattgaacatatgacttatttggtaggaaga 2460
QY 2461 gtctcagggtgcaacacacagaacaggtccctcagccacagcacactgtcttttgcct 2520
Db 2461 gtctcagggtgcaacacacagaacaggtccctcagccacagcacactgtcttttgcct 2520
QY 2521 gatccacccctcttacccttttatcagatgtggcctgttgctcttcttgcctatca 2580
Db 2521 gatccacccctcttacccttttatcagatgtggcctgttgctcttcttgcctatca 2580
QY 2581 cagagacacaggaatttaatttaacattattttaaacaagtagaagggaatccat 2640
Db 2581 cagagacacaggaatttaatttaacattattttaaacaagtagaagggaatccat 2640
QY 2641 tgcctgctttctgtgtggtgtctaatatttgggtgaggtggggtatccccaacatca 2700
Db 2641 tgcctgctttctgtgtggtgtctaatatttgggtgaggtggggtatccccaacatca 2700
QY 2701 ggtccctcagatagctgtggtcattggctgacattgccaagatcttcttctcctgggt 2760
Db 2701 ggtccctcagatagctgtggtcattggctgacattgccaagatcttcttctcctgggt 2760
QY 2761 ctggcccccacaaatgcctaaccacaggaaccttggaattctactatcccaaatgataat 2820
Db 2761 ctggcccccacaaatgcctaaccacaggaaccttggaattctactatcccaaatgataat 2820
QY 2821 tccaaatgctgttaccacaggttaggtgttgaaagagtagaggtggggttcagggt 2880
Db 2821 tccaaatgctgttaccacaggttaggtgttgaaagagtagaggtggggttcagggt 2880
QY 2881 ctcaagggcttccctaaacacccctcttctcttggccagcctggttcccccaacttca 2940
Db 2881 ctcaagggcttccctaaacacccctcttctcttggccagcctggttcccccaacttca 2940
QY 2941 ctccctctactctctcaggaactgggtgatgaaggaactgcccacaaatttccctacc 3000
Db 2941 ctccctctactctctcaggaactgggtgatgaaggaactgcccacaaatttccctacc 3000
QY 3001 cccaaacttccctacccccaaactttcccccacagctccacaacccctgtttggagctact 3060
Db 3001 cccaaacttccctacccccaaactttcccccacagctccacaacccctgtttggagctact 3060
QY 3061 gcaggaccagaagacaaagtgcggtttcccaagcctttgtccatctcagccccagagt 3120
Db 3061 gcaggaccagaagacaaagtgcggtttcccaagcctttgtccatctcagccccagagt 3120
QY 3121 atatctgtcttgggaattctcacagaaactcaggagcacccccctgctcagctgaag 3180
Db 3121 atatctgtcttgggaattctcacagaaactcaggagcacccccctgctcagctgaag 3180
QY 3181 gaggcttactctcaggggggtttaagtgcggtttgcaataatgtcgtctattatt 3240
Db 3181 gaggcttactctcaggggggtttaagtgcggtttgcaataatgtcgtctattatt 3240
QY 3241 tagcgggtgaattatttactgttaagtgaagcaatcaagataatgtttatgttgaca 3300
Db 3241 tagcgggtgaattatttactgttaagtgaagcaatcaagataatgtttatgttgaca 3300
QY 3301 aaattaaaggcttcttatgttttaaaaaaataaaaaaataaaaaaataaaaaa 3360
Db 3301 aaattaaaggcttcttatgttttaaaaaaataaaaaaataaaaaaataaaaaa 3360

```

```

QY 3361 aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa 3410
Db 3361 aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa 3410

RESULT 12
US-09-346-327-100
; Sequence 100, Application US/09346327
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; FILE REFERENCE: 210121.446C4
; CURRENT APPLICATION NUMBER: US/09/346,327
; CURRENT FILING DATE: 1999-07-02
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 100
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-346-327-100

Query Match 100.0%; Score 3409.6; DB 17; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 gggaaacacgctgcacgcgctgctccgggtgacagccgcgcctcggccagatctga 60
Db 1 gggaaacacgctgcacgcgctgctccgggtgacagccgcgcctcggccagatctga 60
QY 61 gtagatagacgtgtcccccactgaggtgccccacagcagcaggtgttgagcatgggtcag 120
Db 61 gtagatagacgtgtcccccactgaggtgccccacagcagcaggtgttgagcatgggtcag 120
QY 121 aagctggaacggcaccacaaagggtggcgacaaatggcgctgctgattcctaggcagt 180
Db 121 aagctggaacggcaccacaaagggtggcgacaaatggcgctgctgattcctaggcagt 180
QY 181 ggcggcagaagagagagagggccgcagcttctgagcagagccgacagacagcagttctg 240
Db 181 ggcggcagaagagagagagggccgcagcttctgagcagagccgacagacagcagttctg 240
QY 241 gagtgcctgaacggccccctgagccctacccgctgcccactatggtccagaggtctg 300
Db 241 gagtgcctgaacggccccctgagccctacccgctgcccactatggtccagaggtctg 300
QY 301 ggtgagccgctgctgcgcacccggaaagcccgactcttctggttgcacacctgtaacctt 360
Db 301 ggtgagccgctgctgcgcacccggaaagcccgactcttctggttgcacacctgtaacctt 360
QY 361 tggcctggaggtgtgtttggcgcagcagcaccatcactatgtgcgccctctgctgtgaagt 420
Db 361 tggcctggaggtgtgtttggcgcagcagcaccatcactatgtgcgccctctgctgtgaagt 420
QY 421 ggggggtagaggagaagtctcatgacctggtgtgggcatgtgtccagtgctgggctcgtt 480
Db 421 ggggggtagaggagaagtctcatgacctggtgtgggcatgtgtccagtgctgggctcgtt 480
QY 481 ctgtgtcccgctcctcaggtcagccagtgaccactggctggacgctatggtgcgcgcgcg 540
Db 481 ctgtgtcccgctcctcaggtcagccagtgaccactggctggacgctatggtgcgcgcgcg 540
QY 541 gcccttcactcagcactgttgggcacgtcctgagcctcttctcctcctcctcctcctcctc 600
Db 541 gcccttcactcagcactgttgggcacgtcctgagcctcttctcctcctcctcctcctcctc 600
QY 601 cggctggctagcagggctgctgtgcccggatccacagccctggagctggcactgctcat 660
Db 601 cggctggctagcagggctgctgtgcccggatccacagccctggagctggcactgctcat 660

```

Qy	61	gtgatgagacgtgtccccactgagtgccccacagcagcaggtgtgtgagcatgggtcgag	120
Db	61	gtgatgagacgtgtccccactgagtgccccacagcagcaggtgtgtgagcatgggtcgag	120
Qy	121	aagctgagacggcacaaaaggctgcagaaattggcgcttgcgtgattcctcaggcagtt	180
Db	121	aagctggacggcaccaaaaggctggcagaaattggcgcttgcgtgattcctcaggcagtt	180
Qy	181	ggcggcagcaagagagagcgcagcttcttgagcagagccgagacgaagcagttctg	240
Db	181	ggcggcagcaagagagagcgcagcttcttgagcagagccgagacgaagcagttctg	240
Qy	241	gagtgcctgaacggccccctgagcctacccgctggcccactatgctccagagctgtg	300
Db	241	gagtgcctgaacggccccctgagcctacccgctggcccactatgctccagagctgtg	300
Qy	301	ggtgagccgctgctggcaccggaagccagctcttgcgtgcaacctgtataacct	360
Db	301	ggtgagccgctgctggcaccggaagccagctcttgcgtgcaacctgtataacct	360
Qy	361	tggcctggaggtgtgttggcgcagaggaataacctatgtgcgcctctgtctggaagt	420
Db	361	tggcctggaggtgtgttggcgcagaggaataacctatgtgcgcctctgtctggaagt	420
Qy	421	gggggtagagagagaattcatgacacatggtgctggcattggtccagtgctgggctgg	480
Db	421	gggggtagagagagaattcatgacacatggtgctggcattggtccagtgctgggctgg	480
Qy	481	ctgtgtccgctcctcctgaggtcagcagtgacacattggcgtggacgtatggccgcgcg	540
Db	481	ctgtgtccgctcctcctgaggtcagcagtgacacattggcgtggacgtatggccgcgcg	540
Qy	541	gcccttcactcgggacctgctcttgggacactgctgtagcctcttctcatcccaaggc	600
Db	541	gcccttcactcgggacctgctcttgggacactgctgtagcctcttctcatcccaaggc	600
Qy	601	cggctggctagcagggtgctgtgcgcggatccccaggccccctggagctggcactgctcat	660
Db	601	cggctggctagcagggtgctgtgcgcggatccccaggccccctggagctggcactgctcat	660
Qy	661	cctgggcgtgggctgctggaactctctggccagagtgtgcttcaactccactggagccct	720
Db	661	cctgggcgtgggctgctggaactctctggccagagtgtgcttcaactccactggagccct	720
Qy	721	gctctctgacctcttcgggacccggacacatgtgcgcaggccactctgtctatgctct	780
Db	721	gctctctgacctcttcgggacccggacacatgtgcgcaggccactctgtctatgctct	780
Qy	781	catgatcagctcttgggggtgctgctgggtacctctgctgacctgacctggaacacag	840
Db	781	catgatcagctcttgggggtgctgctgggtacctctgctgacctgacctggaacacag	840
Qy	841	tgcctggccccctacctgggacccagagagtgctcttttgccctgctcacccctcat	900
Db	841	tgcctggccccctacctgggacccagagagtgctcttttgccctgctcacccctcat	900
Qy	901	cttcctcacctgcgtagcagccacactgctggtgctgagaggcagcgtggccccac	960
Db	901	cttcctcacctgcgtagcagccacactgctggtgctgagaggcagcgtggccccac	960
Qy	961	cgagccagcagaaggctatcgagccccctctctgtgcgccacactgctgtccatcgccggc	1020
Db	961	cgagccagcagaaggctatcgagccccctctctgtgcgccacactgctgtccatcgccggc	1020
Qy	1021	ccgcttggtcttcggaaacctggcgccctgcttcccggctgcacacagctgctgcg	1080
Db	1021	ccgcttggtcttcggaaacctggcgccctgcttcccggctgcacacagctgctgcg	1080
Qy	1081	catgccccgcacactgcgcgcgctctctgctgctgagctgtgcagctgattggcactcat	1140
Db	1081	catgccccgcacactgcgcgcgctctctgctgctgagctgtgcagctgattggcactcat	1140
Qy	1141	qaccttcacgctgttttacacgatttctgagccagaggctgtaccagggcgtgccacg	1200

Db	1141	gaccttcaacgcgtgttttacacggaatttcgtgggcgaggggctgtaccaggcgtgcccag	1200	
Qy	1201	agctgagccgggcaacgagcccgagacacatgatgaagcgttcggatgggcagcct	1260	
Db	1201	agctgagccggcaacgagcccgagacacatgatgaagcgttcggatgggcagcct	1260	
Qy	1261	ggggctgttcctgcagtcgcacatccctgggtttctctctgtcgtcatgacccgcttgg	1320	
Db	1261	ggggctgttcctgcagtcgcacatccctgggtttctctctgtcgtcatgacccgcttgg	1320	
Qy	1321	gcagcatttcggcactcgagcagtcatttggccagtcggcagcttccctgtggctgc	1380	
Db	1321	gcagcatttcggcactcgagcagtcatttggccagtcggcagcttccctgtggctgc	1380	
Qy	1381	cggtgcacaatgcctgtcccaacagtcggccgctggtagacgttcaagccctcacagg	1440	
Db	1381	cggtgcacaatgcctgtcccaacagtcggccgctggtagacgttcaagccctcacagg	1440	
Qy	1441	gttcaaccttctcagccctcgatcctgccttacacactggcctcctctaccaccggga	1500	
Db	1441	gttcaaccttctcagccctcgatcctgccttacacactggcctcctctaccaccggga	1500	
Qy	1501	gaagcagggtgttcctgcccaatacacagaggggacactggaggtgctagcagtcgagcag	1560	
Db	1501	gaagcagggtgttcctgcccaatacacagaggggacactggaggtgctagcagtcgagcag	1560	
Qy	1561	ccctgatgaccagcttccctgcaggccctaagcctggagctccctccctaatggacacgt	1620	
Db	1561	ccctgatgaccagcttccctgcaggccctaagcctggagctccctccctaatggacacgt	1620	
Qy	1621	gggtgtcgaggagtcgctgtcccaactccacccgcgctctctgcggggcctctgcctg	1680	
Db	1621	gggtgtcgaggagtcgctgtcccaactccacccgcgctctctgcggggcctctgcctg	1680	
Qy	1681	tgatgtctcgtacgtgtgggtgggtgagcccaaccgagggccagggtggttccggggccg	1740	
Db	1681	tgatgtctcgtacgtgtgggtgggtgagcccaaccgagggccagggtggttccggggccg	1740	
Qy	1741	gggcacatgcctgggaacctgcacatcctggatgtgcttctctgtctccaaggttgcccc	1800	
Db	1741	gggcacatgcctgggaacctgcacatcctggatgtgcttctctgtctccaaggttgcccc	1800	
Qy	1801	atccctgttatggctccatgtccagctcagccagctgtccaactgctatatatgtgtc	1860	
Db	1801	atccctgttatggctccatgtccagctcagccagctgtccaactgctatatatgtgtc	1860	
Qy	1861	tgcgcgagcctggctggctggccgcaatttaccttctgtcacacaggtagtatattgacaagag	1920	
Db	1861	tgcgcgagcctggctggctggccgcaatttaccttctgtcacacaggtagtatattgacaagag	1920	
Qy	1921	cgaacttggccaaatactcagctagaaaaacttccagcacattgggttggagggccttgcct	1980	
Db	1921	cgaacttggccaaatactcagctagaaaaacttccagcacattgggttggagggccttgcct	1980	
Qy	1981	cacttggctccagctcccgcctcctgttagccccatggggctgcggcgctggccgccaagt	2040	
Db	1981	cacttggctccagctcccgcctcctgttagccccatggggctgcggcgctggccgccaagt	2040	
Qy	2041	ttctgttctgccaaaagtaatgtggctctctgtctgccacccttgtcgtcgtaggttgcgta	2100	
Db	2041	ttctgttctgccaaaagtaatgtggctctctgtctgccacccttgtcgtcgtaggttgcgta	2100	
Qy	2101	gctgcacagctggggcctggggcgtccctcctctctccccagctctcagggtcgtcctg	2160	
Db	2101	gctgcacagctggggcctggggcgtccctcctctctccccagctctcagggtcgtcctg	2160	
Qy	2161	actggaggccttccaaaggggtttcagttcgtgacctatacagggagccagaaggctcc	2220	
Db	2161	actggaggccttccaaaggggtttcagttcgtgacctatacagggagccagaaggctcc	2220	
Qy	2221	atgcactgggaatgcgggggacctcgaaggtggattaccacagctcagggttaacagctagc	2280	

Qy	1681	tga	tgtcc	cgta	ctac	gtgtg	gtggtgagcc	ccagcgccaggtggttccggggccg	1740																					
Db	1681								1740																					
		tga	tgtcc	gta	ctgtgtg	gtgtggtgagcc	ccagcggtggttccggggccg																							
Qy	1741	ggc	cat	ctgct	gga	ccctcg	cca	ctcgcca	ctctgtctccaggttgcccc	1800																				
Db	1741								1800																					
		ggc	cat	ctgct	gga	ccctcg	cca	ctcgcca	ctctgtctccaggttgcccc																					
Qy	1801	atc	cc	gttt	cat	gggtg	cca	ttg	ccagctc	agcgtctcactg	1860																			
Db	1801								1860																					
		atc	cc	gttt	cat	gggtg	cca	ttg	ccagctc	agcgtctcactg																				
Qy	1861	tgc	cg	agg	cc	gtgtg	gtgc	ca	ttt	ta	ctt	gtctacacag	1920																	
Db	1861											1920																		
		tgc	cg	agg	cc	gtgtg	gtgc	ca	ttt	ta	ctt	gtctacacag																		
Qy	1921	cg	act	tg	gcc	aa	t	act	cag	ctag	aaaa	act	cc	ag	ca	cat	tg	gg	gt	gag	gg	cc	ct	gc	ct	1980				
Db	1921																							1980						
		cg	act	tg	gcc	aa	t	act	cag	ctag	aaaa	act	cc	ag	ca	cat	tg	gg	gt	gag	gg	cc	ct	gc	ct					
Qy	1981	ca	ct	gg	gt	cc	ag	ct	cc	cg	ct	ct	gt	ta	g	cc	cc	at	gg	gt	gc	gg	ct	gc	gc	ca	gt	2040		
Db	1981																								2040					
		ca	ct	gg	gt	cc	ag	ct	cc	cg	ct	ct	gt	ta	g	cc	cc	at	gg	gt	gc	gg	ct	gc	gc	ca	gt			
Qy	2041	t	t	ct	gt	gt	gc	ca	a	g	t	a	at	tg	g	ct	c	t	c	t	g	c	t	c	t	c	t	2100		
Db	2041																								2100					
		t	t	ct	gt	gt	gc	ca	a	g	t	a	at	tg	g	ct	c	t	c	t	g	c	t	c	t	c	t			
Qy	2101	g	ct	g	ca	g	ct	g	gg	g	ct	cc	c	t	c	t	c	t	c	t	c	t	c	c	c	a	g	ct	2160	
Db	2101																								2160					
		g	ct	g	ca	g	ct	g	gg	g	ct	cc	c	t	c	t	c	t	c	t	c	c	c	a	g	ct				
Qy	2161	a	ct	g	g	g	cc	t	cc	a	g	gg	gt	t	t	c	a	g	t	c	a	c	t	a	c	a	g	g	ct	2220
Db	2161																								2220					
		a	ct	g	g	g	cc	t	cc	a	g	gg	gt	t	t	c	a	g	t	c	a	c	t	a	c	a	g	g	ct	
Qy	2221	a	g	c	a	ct	g	g	a	a	t	c	g	a	g	g	a	t	a	c	c	a	g	g	c	a	g	g	ct	2280
Db	2221																								2280					
		a	g	c	a																									

Db	2761	ctgccccccaaaatgccaatacccaggacctggaaattctactcatccccaaatgataat	2820
Qy	2821	tccaaatgctgttacccaaggttagaggttgaaaggaaaggtagaggggtggggcttcagggt	2880
Db	2821	tccaaaTgctgttacccaaggttagaggttgaaaggaaaggtagaggggtggggcttcagggt	2880
Qy	2881	ctcaacggcttccctaaaccaacccctctctctggccagacctgttccccccacttcca	2940
Db	2881	ctcaacggcttccctaaaccaacccctctctctggccagacctgttccccccacttcca	2940
Qy	2941	ctccccctactctctctagagactgggcttgatgaaggcaactgcccaaaatttccccctacc	3000
Db	2941	ctccccctactctctctagagactgggcttgatgaaggcaactgcccaaaatttccccctacc	3000
Qy	3001	cccgaactttccctaaccccccaactttcccccacagctccacaacccctgtttggagactact	3060
Db	3001	cccgaactttccctaaccccccaactttcccccacagctccacaacccctgtttggagactact	3060
Qy	3061	gcaggaccagaagacaaaagtcggtttccccagcctttgtccactctcagccccccagagt	3120
Db	3061	gcaggaccagaagacaaaagtcggtttccccagcctttgtccactctcagccccccagagt	3120
Qy	3121	atatctctgcttggggaattctcacagaaactccaggagcacccccctgcctgagctaaagg	3180
Db	3121	atatctctgcttggggaattctcacagaaactccaggagcacccccctgcctgagctaaagg	3180
Qy	3181	gagctcttatctctcaggggggggttaagtgcggtttgcaataatgtcgtcttatattt	3240
Db	3181	gagctcttatctctcaggggggggttaagtgcggtttgcaataatgtcgtcttatattt	3240
Qy	3241	tagcggggtgaattttatactgttaagtgcgaatcagagtgataatgtttatggtgaca	3300
Db	3241	tagcggggtgaattttatactgttaagtgcgaatcagagtgataatgtttatggtgaca	3300
Qy	3301	aaattaaaggctttcttatgttttaaaaaaaataaaaaaaataaaaaaaataaaaaaa	3360
Db	3301	aaattaaaggctttcttatgttttaaaaaaaataaaaaaaataaaaaaaataaaaaaa	3360
Qy	3361	aaaaaaaaraaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaa	3410
Db	3361	aaaaaaaaraaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaa	3410
RESULT 11			
US-09-288-950-100			
; Sequence 100, Application US/09288950			
; GENERAL INFORMATION:			
; APPLICANT: Reed, Steven G.			
; APPLICANT: Xu, Jiangchun			
; APPLICANT: Dillon, Davin C.			
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND			
; FILE REFERENCE: 210121.446C3			
; CURRENT APPLICATION NUMBER: US/09/288, 950			
; CURRENT FILING DATE: 1999-04-09			
; NUMBER OF SEQ ID NOS: 101			
; SOFTWARE: FastSeq for Windows Version 3.0			
; SEQ ID NO 100			
; LENGTH: 3410			
; TYPE: DNA			
; ORGANISM: Homo sapien			
US-09-288-950-100			

	Query Match	100.0%	Score 3409.6;	DB 16;	Length 3410;
	Best Local Similarity	100.0%;	Pred. NO. 0;		
	Matches 3410;	Conservative	0;	Mismatches	0; Indels 0; Gaps 0;
Qy	1	gggaaccagcctgcacgcgctgggtccgggtggacagccgcgcgctcggccagatctga	60		
bb	1	gggaaccagcctgcacgcgctgggtccgggtggacagccgcgcgctcggccagatctga	60		

QY 541 qccttcactctggcactgtccttgccgcatcctgctgagcctcttctcatcccaaggc 600
 Db 541 qccttcactctggcactgtccttgccgcatcctgctgagcctcttctcatcccaaggc 600
 QY 601 cggctggctagcaggctgctgtgcccggatcccaagcccctggagctggcactgtctat 660
 Db 601 cggctggctagcaggctgctgtgcccggatcccaagcccctggagctggcactgtctat 660
 QY 661 cctggcgtggggctgctggactctctgtggccaagtgctcttcaactccactggaggccct 720
 Db 661 cctggcgtggggctgctggactctctgtggccaagtgctcttcaactccactggaggccct 720
 QY 721 gctctctgactctctcgggaaccggacacactgtccagggcctactctgtctatccct 780
 Db 721 gctctctgactctctcgggaaccggacacactgtccagggcctactctgtctatccct 780
 QY 781 catgatacgtcttggggctgctgggctacactcctctgctgcoattgactgggacaccag 840
 Db 781 catgatacgtcttggggctgctgggctacactcctgctgcoattgactgggacaccag 840
 QY 841 tgcctggccccttaactgtgggaaccagagagtgctcttggcctgctcaactcat 900
 Db 841 tgcctggccccttaactgtgggaaccagagagtgctcttggcctgctcaactcat 900
 QY 901 ctctctcaactgctgtagcagccacactgctggctgagggagcagcgtgggcccac 960
 Db 901 ctctctcaactgctgtagcagccacactgctggctgagggagcagcgtgggcccac 960
 QY 961 cgagcagcagaaggctgtcgggcccctctctgtcgcccactgtgtccatgcccggc 1020
 Db 961 cgagcagcagaaggctgtcgggcccctctctgtcgcccactgtgtccatgcccggc 1020
 QY 1021 ccgcttggtcttcggaaactgggcctgcttcccggctcacacagctgtgctggcg 1080
 Db 1021 ccgcttggtcttcggaaactgggcctgcttcccggctcacacagctgtgctggcg 1080
 QY 1081 catgcccgcacactgcgcggctctctgtgctgagctgtgcagctgcatggcactcat 1140
 Db 1081 catgcccgcacactgcgcggctctctgtgctgagctgtgcagctgcatggcactcat 1140
 QY 1141 gaccttcacactgttttaacagattctgtggcgagggctatcacaggcgtgcccag 1200
 Db 1141 gaccttcacactgttttaacagattctgtggcgagggctatcacaggcgtgcccag 1200
 QY 1201 agctgagccggcgacagcccgagacactatgatgaaggcgttcggatggcgagcct 1260
 Db 1201 agctgagccggcgacagcccgagacactatgatgaaggcgttcggatggcgagcct 1260
 QY 1261 ggggctgttctcagtgccatctccctggtctctctctgtgctatggacccgctggt 1320
 Db 1261 ggggctgttctcagtgccatctccctggtctctctctgtgctatggacccgctggt 1320
 QY 1321 gcagcattcgcactcgacgtctatttgccagctgtggcagcttccctgtgctgc 1380
 Db 1321 gcagcattcgcactcgacgtctatttgccagctgtggcagcttccctgtgctgc 1380
 QY 1381 cgggtgcaacatgctgtcccacagctgtggcgtggtagagcttcagccgcccctaccgg 1440
 Db 1381 cgggtgcaacatgctgtcccacagctgtggcgtggtagagcttcagccgcccctaccgg 1440
 QY 1441 gttcaactctcagccctcagatcctgcccctacacactggcctcctctacacacggga 1500
 Db 1441 gttcaactctcagccctcagatcctgcccctacacactggcctcctctacacacggga 1500
 QY 1501 gaagcaggtgttctgcacaaataccgaggggacactggaggtgctagcagtgaggacag 1560
 Db 1501 gaagcaggtgttctgcacaaataccgaggggacactggaggtgctagcagtgaggacag 1560
 QY 1561 cctgatgaccagcttctcggagcccttaagcctgagctcccttcccttaattggacacgt 1620
 Db 1561 cctgatgaccagcttctcggagcccttaagcctgagctcccttcccttaattggacacgt 1620
 QY 1621 ggggtgctggaggcagtggcctgtccacactccaccccgctctgcggggcctctcctctg 1680

Db 1621 ggggtgctggaggcagtggcctgtccacactccaccccgctctgcggggcctctgctcg 1680
 QY 1681 tgatgtctcgtacgtgtggtgtggtgagcccaacagggcagggttggttccggggcg 1740
 Db 1681 tgatgtctcgtacgtgtggtgtggtgagcccaacagggcagggttggttccggggcg 1740
 QY 1741 gggcctctgcctggacctgcacatcctgatatgtgctctcctgctgctccaggtggccce 1800
 Db 1741 gggcctctgcctggacctgcacatcctgatatgtgctctcctgctgctccaggtggccce 1800
 QY 1801 atccctgtttatgggtccactgtccagctcagctgacagctgtcactgcctatatgggtc 1860
 Db 1801 atccctgtttatgggtccactgtccagctcagctgacagctgtcactgcctatatgggtc 1860
 QY 1861 tggccgaggcctgggtctggtgcgcatttactttgtctacacaggtagtatttgacaagag 1920
 Db 1861 tggccgaggcctgggtctggtgcgcatttactttgtctacacaggtagtatttgacaagag 1920
 QY 1921 cgaactggccaaataactcagcgtagaaaacttccagcacattgggtggagggcctgcct 1980
 Db 1921 cgaactggccaaataactcagcgtagaaaacttccagcacattgggtggagggcctgcct 1980
 QY 1981 cactgggtcccagctcccgcctcctgttagcccatggggctgcgggctggccgcaggt 2040
 Db 1981 cactgggtcccagctcccgcctcctgttagcccatggggctgcgggctggccgcaggt 2040
 QY 2041 ttctgtgtgctgccaagtaattgtggtctctctgctgcacccctgtgctgaggtgcgtat 2100
 Db 2041 ttctgtgtgctgccaagtaattgtggtctctctgctgcacccctgtgctgaggtgcgtat 2100
 QY 2101 gctgcacagctggggctgggctgcctctctctctctcccagctctctagggctgcctg 2160
 Db 2101 gctgcacagctggggctgggctgcctctctctctctcccagctctctagggctgcctg 2160
 QY 2161 actggaggccttccaaagggggtttcagctgtgacttatcacaggagggccagaggctcc 2220
 Db 2161 actggaggccttccaaagggggtttcagctgtgacttatcacaggagggccagaggctcc 2220
 QY 2221 atgcactggaatgcggggagctctgcaggtggattaccaggctcagggttaacagctagc 2280
 Db 2221 atgcactggaatgcggggagctctgcaggtggattaccaggctcagggttaacagctagc 2280
 QY 2281 ctcttagttgagacacacacacacacacacacacacacacacacacacacacacacac 2340
 Db 2281 ctcttagttgagacacacacacacacacacacacacacacacacacacacacacacac 2340
 QY 2341 gtttcccatctctaaagccccttaacccctgcagctctgtttaaagtagctcttgcattggag 2400
 Db 2341 gtttcccatctctaaagccccttaacccctgcagctctgtttaaagtagctcttgcattggag 2400
 QY 2401 ttcttaggtgaaacactcctccatgggatttgaacatatgacttattttagggggaaga 2460
 Db 2401 ttcttaggtgaaacactcctccatgggatttgaacatatgacttattttagggggaaga 2460
 QY 2461 gttcctgaggggcaacacacacacacacacacacacacacacacacacacacacacacac 2520
 Db 2461 gttcctgaggggcaacacacacacacacacacacacacacacacacacacacacacacac 2520
 QY 2521 gatccaccccctcttaccctttatcagatgtggcctgtgtgctctctgttgccatca 2580
 Db 2521 gatccaccccctcttaccctttatcagatgtggcctgtgtgctctctgttgccatca 2580
 QY 2581 cagagacacagcattttaaataattttaaataattttaaataattttaaataattttaaataatt 2640
 Db 2581 cagagacacagcattttaaataattttaaataattttaaataattttaaataattttaaataatt 2640
 QY 2641 tgcctagctttctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 2700
 Db 2641 tgcctagctttctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 2700
 QY 2701 ggtccctgagatagctgtctatgggctgacattggcagatctctctctcctctgggt 2760

Qy	2161	actggaggccttccaagggggttttcagctctgagctattacaaggaggagccagaagggctcc	2222
Db	2161	actggaggcctccaagggggttttcagctctgagctattacaaggaggagccagaagggctcc	2220
Qy	2221	atgcactgaatgcggggaactctgcagctggaattaccagagctcaggggttaacagctagc	2280
Db	2221	atgcactggaatgcgggggactctgcagctggaattaccagagctcaggggttaacagctagc	2280
Qy	2281	ctcctagttgacacacacctagagaagggtttttgggagctggaataaactcagtcacctg	2340
Db	2281	ctcctagttgacacacacctagagaagggtttttgggagctggaataaactcagtcacctg	2340
Qy	2341	gtttcccatctctaaagcccttaacctgcagctcogtttaattagctcttgcatgggag	2400
Db	2341	gtttcccatctctaaagcccttaacctgcagctcogtttaattagctcttgcatgggag	2400
Qy	2401	ttttctagga tgaacactcctccatgggatttgaacatatgactattttgtaggggaaga	2460
Db	2401	ttttctagga tgaacactcctccatgggatttgaacatatgactattttgtaggggaaga	2460
Qy	2461	gtcctgaggggcaacacacagaacacaggctccctcagcccaagcacaagactgtcttttgc	2520
Db	2461	gtcctgaggggcaacacacagaacacaggctccctcagcccaagcacaagactgtcttttgc	2520
Qy	2521	gatacccccctcttaaccttttatacaggatggcctgttggctctcttctgtttgccaaca	2580
Db	2521	gatacccccctcttaaccttttatacaggatggcctgttggctctcttctgtttgccaaca	2580
Qy	2581	cagagacacaggcatttaataatttaacctattattttaacaaagttagaggggaatccat	2640
Db	2581	cagagacacaggcatttaataatttaacctattattttaacaaagttagaggggaatccat	2640
Qy	2641	tgtctagctttctgtgttggtgtcctaattttgggttaggggtgggggacccccacaataca	2700
Db	2641	tgtctagctttctgtgttggtgtcctaattttgggttaggggtgggggacccccacaataca	2700
Qy	2701	ggtccctcgagatagctgggttcattgggctgatactgcagaaactctctctctctcgtgggt	2760
Db	2701	ggtccctcgagatagctgggttcattgggctgatactgcagaaactctctctctctcgtgggt	2760
Qy	2761	ctggcccccaaaatgcctaaccacaggaaacttggaaattctactcatcccaaatgataat	2820
Db	2761	ctggcccccaaaatgcctaaccacaggaaacttggaaattctactcatcccaaatgataat	2820
Qy	2821	tccaaatgctgttaccocaaagtttagggtgttgaaaggaaggtagaggggtgggggttcagg	2880
Db	2821	tccaaatgctgttaccocaaagtttagggtgttgaaaggaaggtagaggggtgggggttcagg	2880
Qy	2881	ctcaacggttccctaaccacccctctctctgtgccagcctgggttccccccacttcca	2940
Db	2881	ctcaacggttccctaaccacccctctctctgtgccagcctgggttccccccacttcca	2940
Qy	2941	ctccctctactctctctaggaactgggctgataaggaggaactgcccaaaatttcccctacc	3000
Db	2941	ctccctctactctctctaggaactgggctgataaggaggaactgcccaaaatttcccctacc	3000
Qy	3001	cccacacttccctaccccacacttccccacagctccacaaacctgtttggagctact	3060
Db	3001	cccacacttccctaccccacacttccccacagctccacaaacctgtttggagctact	3060
Qy	3061	gcaggaccagaagcaacaaatggggtttcccagcctttgtccactcagccccacaggt	3120
Db	3061	gcaggaccagaagcaacaaatggggtttcccagcctttgtccactcagccccacaggt	3120
Qy	3121	atatctgtctgttggggaactctcacagaaaactcaggagcaccacctgcctgagctaagg	3180
Db	3121	atatctgtctgttggggaactctcacagaaaactcaggagcaccacctgcctgagctaagg	3180
Qy	3181	gaggtcttatctctcagggggggtttaagtgcggtttgcaataatgtcgtctattattt	3240
Db	3181	gaggtcttatctctcagggggggtttaagtgcggtttgcaataatgtcgtctattattt	3240
Qy	3241	tacccaagtgaatatatttactctgaagtgaagcaatccagagataataattttatagtgaca	3300

```

Db 3241 tagcggggtgaatttttatactgtaagtgagcaatcagagtataatgttttatgttgaca 33000
Qy 3301 aaattaaaggctttcttatgttttaaaaaaataaaaaaataaaaaaataaaaaa 33600
Db 3301 aaattaaaggctttcttatgttttaaaaaaataaaaaaataaaaaaataaaaaa 33600
Qy 3361 aaaaaaaaraaaaaaataaaaaaataaaaaaataaaaaaataaaaaaataaaaaa 3410
Db 3361 aaaaaaaaraaaaaaataaaaaaataaaaaaataaaaaaataaaaaaataaaaaa 3410

RESULT 8
US-09-232-149A-110
; Sequence 110, Application US/09232149A
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE
; TITLE OF INVENTION: CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427C6
; CURRENT APPLICATION NUMBER: US/09/232,149A
; CURRENT FILING DATE: 1999-01-15
; NUMBER OF SEQ ID NOS: 338
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-232-149A-110

Query Match 100.0%; Score 3409.6; DB 16; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps

```


Db 1561 cctgatgaccagcttctcgcaggccctaagcctggagctcccttccctaataaggacagt 1620
Qy 1621 ggggtgtgaggcagtgccctgtctccacactccaccgcgctctgaggccctctgacctg 1680
Db 1621 ggggtgtgaggcagtgccctgtctccacactccaccgcgctctgaggccctctgacctg 1680
Qy 1681 tgatgtccctgacgtgtgtgtgtgtgtgagccaccagagccagaggtgtgtccggccg 1740
Db 1681 tgatgtccctgacgtgtgtgtgtgtgtgagccaccagagccagaggtgtgtccggccg 1740
Qy 1741 gggcatcgcctggacccgcacactccatctctgtagtgccttccctgctccagagtgccccc 1800
Db 1741 gggcatcgcctggacccgcacactccatctctgtagtgccttccctgctccagagtgccccc 1800
Qy 1801 atccctgtttatgggtcccatgtccagctcagccagctcgtcactgcctatattgtgtc 1860
Db 1801 atccctgtttatgggtcccatgtccagctcagccagctcgtcactgcctatattgtgtc 1860
Qy 1861 tgcgcagggcctgggtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 1920
Db 1861 tgcgcagggcctgggtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 1920
Qy 1921 cgactgtgcaaaatcactcagctgtagaaacttccagcacattgggtgtgaggccctgcct 1980
Db 1921 cgactgtgcaaaatcactcagctgtagaaacttccagcacattgggtgtgaggccctgcct 1980
Qy 1981 cactgggtcccgactcccgctcctgttagcccatggggctgcccggctggccggccagt 2040
Db 1981 cactgggtcccgactcccgctcctgttagcccatggggctgcccggctggccggccagt 2040
Qy 2041 ttctgtgtgtccaaagtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 2100
Db 2041 ttctgtgtgtccaaagtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 2100
Qy 2101 gctgcacagctgggggtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 2160
Db 2101 gctgcacagctgggggtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 2160
Qy 2161 actggaggcctccaaagggtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 2220
Db 2161 actggaggcctccaaagggtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 2220
Qy 2221 atgcactggaatgcgggagctctgcaggtgtattaccagctcaggggttaacagctagc 2280
Db 2221 atgcactggaatgcgggagctctgcaggtgtattaccagctcaggggttaacagctagc 2280
Qy 2281 ctccctagttgacacacctagagaagggttttggggagctgaaataaactcagctcaactg 2340
Db 2281 ctccctagttgacacacctagagaagggttttggggagctgaaataaactcagctcaactg 2340
Qy 2341 gtttcccatcttaagcccttaacctcagctcagcttctgtttaaagttagctcttgcatggag 2400
Db 2341 gtttcccatcttaagcccttaacctcagctcagcttctgtttaaagttagctcttgcatggag 2400
Qy 2401 ttcttagatgaaacactccctccatgggatttgaacatatgacttattttaggggaaga 2460
Db 2401 ttcttagatgaaacactccctccatgggatttgaacatatgacttattttaggggaaga 2460
Qy 2461 gtccctgaggggcaacacacagaagaacaggtccctcagccacacagactgcttttggct 2520
Db 2461 gtccctgaggggcaacacacagaagaacaggtccctcagccacacagactgcttttggct 2520
Qy 2521 gttccacccctcttaccttttaccagatgtggcctgttggctcttctgttggccatca 2580
Db 2521 gttccacccctcttaccttttaccagatgtggcctgttggctcttctgttggccatca 2580
Qy 2581 cagagacagggcatttaaatatttaacttatttatttaacaaagtagaagggaatccat 2640
Db 2581 cagagacagggcatttaaatatttaacttatttatttaacaaagtagaagggaatccat 2640
Qy 2641 tgctagctttctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 2700
Db 2641 tgctagctttctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 2700

Qy 2701 ggtccctgagatagctgtgctcatttgggtgctgatacttggcagaatcttcttctctctgggt 2760
Db 2701 ggtccctgagatagctgtgctcatttgggtgctgatacttggcagaatcttcttctctgggt 2760
Qy 2761 ctggcccccaaaatgcctaaaccaggaccttggaaattctactcactcccaatgataat 2820
Db 2761 ctggcccccaaaatgcctaaaccaggaccttggaaattctactcactcccaatgataat 2820
Qy 2821 tccaaatgctgtttaccccaagggttaggtgtgtgaagaaagtagaggggtggtcctcaggt 2880
Db 2821 tccaaatgctgtttaccccaagggttaggtgtgtgaagaaagtagaggggtggtcctcaggt 2880
Qy 2881 ctcaaggggttccctaaaccacccctcttcttggcccagcctggttcccccaactcca 2940
Db 2881 ctcaaggggttccctaaaccacccctcttcttggcccagcctggttcccccaactcca 2940
Qy 2941 ctccctctactctcttaggactgggtgctgataagagcactgcccacaaatttccccctacc 3000
Db 2941 ctccctctactctcttaggactgggtgctgataagagcactgcccacaaatttccccctacc 3000
Qy 3001 cccaaatttccccctcccccaacttccccacagctcccaacccctgtttggagctact 3060
Db 3001 cccaaatttccccctcccccaacttccccacagctcccaacccctgtttggagctact 3060
Qy 3061 gcaggaccagaacacaaagtgcggtttcccaagcctttgtccatctcagccccccagagt 3120
Db 3061 gcaggaccagaacacaaagtgcggtttcccaagcctttgtccatctcagccccccagagt 3120
Qy 3121 atactgtgtgtgggaatctcacagaaactcacagagcagggagcaccctgcctgagctaaagg 3180
Db 3121 atactgtgtgtgggaatctcacagaaactcacagagcagggagcaccctgcctgagctaaagg 3180
Qy 3181 gaggcttactctcaggggggttttaagtgcggtttgcaataatgctcttatttatt 3240
Db 3181 gaggcttactctcaggggggttttaagtgcggtttgcaataatgctcttatttatt 3240
Qy 3241 tagcgggtggaatattttatactgtaagtgcagcaatcagagataatgcttattggtgaca 3300
Db 3241 tagcgggtggaatattttatactgtaagtgcagcaatcagagataatgcttattggtgaca 3300
Qy 3301 aaattaaaggctttcttatatttttaaaaaaataaaaaaataaaaaaataaaaaa 3360
Db 3301 aaattaaaggctttcttatatttttaaaaaaataaaaaaataaaaaaataaaaaa 3360
Qy 3361 aaaaaaaraaaaaaataaaaaaataaaaaaataaaaaaataaaaaaataaaaaa 3410
Db 3361 aaaaaaaraaaaaaataaaaaaataaaaaaataaaaaaataaaaaaataaaaaa 3410

RESULT 7

US-09-232-149-110
; Sequence 110, Application US/09232149

; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer Lynn

; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE

; FILE REFERENCE: 210121.427C6

; CURRENT FILING DATE: 1999-01-15

; NUMBER OF SEQ ID NOS: 338

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 110

; LENGTH: 3410

; TYPE: DNA

; ORGANISM: Homo sapien

US-09-232-149-110

Query Match 100.0%; Score 3409.6; DB 16; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;

QY	2041	t t c t g t t g c t g c c a a g t a a t t g g c t c t g t g c c a c c c t g t g c t g a g g t c g g t a	2100
Db	2041	t t c t g t t g c t g c c a a g t a a t t g g c t c t g t g c c a c c c t g t g c t g a g g t c g g t a	2100
QY	2101	g t g c a c a g c t g g g g c t g g g g c t c c c t c t c t c t c t c t c c c a g t c t c t a g g c t g c o t g	2160
Db	2101	g t g c a c a g c t g g g g c t g g g g c t c c c t c t c t c t c t c t c c c a g t c t c t a g g c t g c o t g	2160
QY	2161	a c t g a g g c c t t c c a a g g g t t t c a g t c g a c t a t a c a g g a g c c a a g a g g c t c c	2220
Db	2161	a c t g a g g c c t t c c a a g g g t t t c a g t c g a c t a t a c a g g a g c c a a g a g g c t c c	2220
QY	2221	a t g c a c t g a a t c g c g g a c t c g a g t g g a t t a c c a g g c t c a g g g t t a a c a g c t a g c	2280
Db	2221	a t g c a c t g a a t c g c g g a c t c g a g t g g a t t a c c a g g c t c a g g g t t a a c a g c t a g c	2280
QY	2281	c t c t a g t t g a a c a c a c a c c t a g a a g a g g t t t t g g a g c t g a a t a a c t c a g t c a c c t g	2340
Db	2281	c t c t a g t t g a a c a c a c c t a g a a g a g g t t t t g g a g c t g a a t a a c t c a g t c a c c t g	2340
QY	2341	g t t c c a c t c t a a g c c c t t a a c c t c a g c t g a g t t t a a t g a g t a g t c t t g t a t g g a g	2400
Db	2341	g t t c c a c t c t a a g c c c t t a a c c t c a g c t g a g t t t g t t a a t g a g t c t t g t a t g g a g	2400
QY	2401	t t i c t a g g a t g a a c a c t c c t c a t g g a t t t g a a c a t a t g a c t a t t t g t a g g g a a g a	2460
Db	2401	t t t c t a g g a t g a a a c c t c c t c a t g g a t t t g a a c a t a t g a c t a t t t g a g g g a a g a	2460
QY	2461	g t c t g a g g g c a a c a c a a g a a c a g g t c c c t c a g c c a c a g a c t g t c t t t t g c t	2520
Db	2461	g t c t g a g g g c a a c a c a a g a a c a g g t c c c t c a g c c a c a g a c t g t c t t t t g c t	2520
QY	2521	g a t c a c c c c c t c t a c c t t t t a c a g a t g t g c c t g t t g g t b c t t c t g t t g c c a t c a	2580
Db	2521	g a t c a c c c c c t t a c c t t t t a c a g a t g t g c c t g t t g g t c c t c t g t t g c c a t c a	2580
QY	2581	c a g a c a c a g g c a t t a a a t t t a a c t a t t a t t t a a c a a g t a g a a g a a t c c a t	2640
Db	2581	c a g a c a c a g g c a t t a a a t t t a a c t a t t a t t a a c a a g t a g a a g g a a t c c a t	2640
QY	2641	t g t a g t t t c t g t t g g t g t c t a a t t t g g y t a g g t g g g g a t c c c a c a a t c a	2700
Db	2641	t g t a g t t t c t g t t g g t g t c t a a t t t g g y t a g g t g g g g a t c c c a c a a t c a	2700
QY	2701	g g t c c c t g a g a t a g t g t c a t t g g g c t g a t c a t g c a g a a t t t t c t c t c t g g g g t	2760
Db	2701	g g t c c c t g a g a t a g t g t c a t t g g g c t g a t c a t g c a g a a t t t c t c t c t g g g g t	2760
QY	2761	c t g g c c c c c a a a t g c t a a c c a g a c c t t g g a a t t c t a c t a c c c a a a t g a t a a t	2820
Db	2761	c t g g c c c c c a a a t g c t a a c c a g a c c t t g g a a t t c t a c t a c c a a a t g a t a a t	2820
QY	2821	t c c a a a t g c t g t t a c c a a g g t t a g g t g t t g a a g a a g g t a g a g g t g g g g c t a a g g t	2880
Db	2821	t c c a a a t g c t g t a c c a a a g g t t a g g t g t t g a a g a a g g t a g a g g t g g g g c t a a g g t	2880
QY	2881	c t a a c g g g t c c c t a a c a c c c c t c t c t c t g c c a g c t g t t c c c c c a c t t c c a	2940
Db	2881	c t a a c g g t t e c c t a a c c a c c c t c t c t t g g c c a g c t g g t t c c c c c a c t t c c a	2940
QY	2941	c t c c c c t c t a c t c t c t a g a c t g g g c t g a t g a a g g a a g g t a g a g g t g g g g c t a a g g t	3000
Db	2941	c t c c c c t a c t c t c t a g a c t g g g c t g a t g a a g g a a g g t g c c c a a a t t t c c c c t a c c	3000
QY	3001	c c c a a c t t c c c t a c c c c a a c t t c c c a c a g c t c c a a c c c t g t t t g g a g c t a c t	3060
Db	3001	c c c a a c t t c c c t a c c c c a a c t t c c c a c c a g c t c c a a c c c t g t t g g a g c t a c t	3060
QY	3061	g c a g g a c c a a g a c a a a g t c g g t t t c c c a a g c t t t g t c a t c t a g c c c c a a g t	3120
Db	3061	g c a g g a c c a a g a c a a a g t c g g t t t c c c a a g c t t t g t c a t c t a g c c c c a a g t	3120

Qy	3121	at	at	ct	gt	ct	gt	gg	ga	at	ct	ca	ca	ga	aa	aa	ct	ca	gg	ga	cc	cc	ct	gc	gc	ta	ag	g	3180	
																													3180	
Db	3121	at	at	ct	gt	ct	gt	gg	ga	at	ct	ca	ca	ga	aa	aa	ct	ca	gg	ga	cc	cc	ct	gc	gc	ta	ag	g	3180	
																													3180	
Qy	3181	ga	gg	t	ct	at	ct	ct	ca	gg	gg	gg	tt	ta	ag	t	gc	cg	tt	gc	aa	ta	at	gc	gt	ct	ct	ta	tt	3240
																													3240	
Db	3181	ga	gg	t	ct	at	ct	ct	ca	gg	gg	gg	tt	ta	ag	t	gc	cg	tt	gc	aa	ta	at	gc	gt	ct	ct	ta	tt	3240
																													3240	
Qy	3241	ta	gc	gg	gt	ga	at	at	tt	ta	ct	ta	gc	ta	ag	t	ga	gc	aa	tc	ag	ta	ta	aa	gt	tt	ta	gt	gc	3300
																													3300	
Db	3241	ta	gc	gg	gt	ga	at	at	tt	ta	ct	ta	gc	ta	ag	t	ga	gc	aa	tc	ag	ta	ta	aa	gt	tt	ta	gt	gc	3300
																													3300	
Qy	3301	aa	at	aa	gg	ct	tt	ct	ta	ta	tg	tt	ta	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	3360
																													3360	
Db	3301	aa	at	aa	gg	ct	tt	ct	ta	ta	tg	tt	ta	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	3360
																													3360	
Qy	3361	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	3410
																													3410	
Db	3361	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	aa	3410
																													3410	

```

RESULT 4
US-09-116-134-110
; Sequence 110, Application US/09116134B
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNODIAGNOSIS OF PROSTATE CANCER AND
; TITLE OF INVENTION: METHODS FOR THEIR USE
; FILE REFERENCE: 210121.428C4
; CURRENT APPLICATION NUMBER: US/09/116,134B
; CURRENT FILING DATE: 1998-07-14
; NUMBER OF SEQ ID NOS: 228
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-116-134-110

```

	Query Match	100.0%	Score	3409.6;	DB 15;	Length	3410;
	Best Local Similarity	100.0%;	Pred. No. 0;				
	Matches	3410;	Conservative	0;	Mismatches	0;	Gaps
Qy	1	gggaaccagcctgcacgcgcctggctccgggtgacagccgcgcgcctcggccagagatctga	60				
Db	1	gggaaccagcctgcacgcgcctggctccgggtgacagccgcgcgcctcggccagagatctga	60				
Qy	61	gtgatgagacgtgtcccccactgaggtgccccacagcagcaggtgttgagcatggcctgaag	120				
Db	61	gtgatgagacgtgtcccccactgaggtgccccacagcagcaggtgttgagcatggcctgaag	120				
Qy	121	aagctggaccggcaccaaaggctggccagaaatggcgctggtgattcctcaggcagtt	180				
Db	121	aagctggaccggcaccaaaggctggccagaaatggcgctggtgattcctcaggcagtt	180				
Qy	181	ggcgcgcacgaaggagagagggccgcagctctctggagcagagccgagagaagcagttctg	240				
Db	181	ggcgcgcacgaaggagagagggccgcagctctctggagcagagccgagagaagcagttctg	240				
Qy	241	gagtgccctgaacggccccctgagccctaccgcctggccccattatgggtccagagcgtgtg	300				
Db	241	gagtgccctgaacggccccctgagccctaccgcctggccccattatgggtccagagcgtgtg	300				
Qy	301	ggtgagccgctgtgcggcaccggaagcccgactcttctgttggtccaacctgctaacctt	360				
Db	301	ggtgagccgctgtgtgcggcaccggaagcccgactcttctgttggtccaacctgctaacctt	360				
Qy	361	tggcctgaggtgtgtttggccgcagggaatcacctatgtgcgcgcctctgtctgctgaagct	420				
pb	361	tgccttgaggtgtgtttggccgcagggaatcacctatgtgcgcgcctctgtctgctgaagct	420				

; SEQ ID NO 110		Query Match	100.0%;	Score 3409.6;	DB 15;	Length 3410;
; LENGTH: 3410		Best Local Similarity	100.0%;	Pred. No. 0;		
; TYPE: DNA		Matches 3410;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps
; ORGANISM: Homo sapien						
US-09-115-453-110						
QY	1	gggaaccagctcagcgcgtggctccggtgtacagccgcgcctcgccaggatctga	60			
DB	1	gggaaccagctcagcgcgtggctccggtgtacagccgcgcctcgccaggatctga	60			
QY	61	gtgatgagcgtgtcccccactgaggtgtccccaacagcagcaggtgtgtgagcatgggctgag	120			
DB	61	gtgatgagcgtgtcccccactgaggtgtccccaacagcagcaggtgtgtgagcatgggctgag	120			
QY	121	aagctgacccgcacaaaaggctgcgaaaaatggcgcttggctgattcctcaggcagtt	180			
DB	121	aagctgacccgcacaaaaggctgcgaaaaatggcgcttggctgattcctcaggcagtt	180			
QY	181	ggcgccagcaagagagagagccgcagctcttggagcagacgcgagcaagcagttcttg	240			
DB	181	ggcgccagcaagagagagagccgcagctcttggagcagacgcgagcaagcagttcttg	240			
QY	241	gagtgctgaacggcccccttgagcctataccgcctagcccaactatggtccagagctgtg	300			
DB	241	gagtgctgaacggcccccttgagcctataccgcctagcccaactatggtccagagctgtg	300			
QY	301	ggtgagccgctgctcggcacccgaaagccagctcttgcgtgctcaacctgctaacctt	360			
DB	301	ggtgagccgctgctcggcacccgaaagccagctcttgcgtgctcaacctgctaacctt	360			
QY	361	tggcctgaggtgtgtttggccgagggcatacctatgtgcgcctctctgctgctggaagt	420			
DB	361	tggcctgaggtgtgtttggccgagggcatacctatgtgcgcctctctgctgctggaagt	420			
QY	421	gggggtagagagaagtctcatgacctggctggtggcattgtgccagtgctgggctggt	480			
DB	421	gggggtagagagaagtctcatgacctggctggtggcattgtgccagtgctgggctggt	480			
QY	481	ctgtgtccgctctcctaggtctcagcagtgaccactggctggagcgtatggccgcgcgcg	540			
DB	481	ctgtgtccgctctcctaggtctcagcagtgaccactggctggagcgtatggccgcgcgcg	540			
QY	541	gcctctcatctgggcactgtccttgggcactctgtgagcctcttctcatcccaaggcc	600			
DB	541	gcctctcatctgggcactgtccttgggcactctgtgagcctcttctcatcccaaggcc	600			
QY	601	cggctggctagcaggctgctgtgcccggtatccacggccccctggagctggcactgctcat	660			
DB	601	cggctggctagcaggctgctgtgcccggtatccacggccccctggagctggcactgctcat	660			
QY	661	cctgggcgtggggctgctggaactctgtggccaaggtgtgttcaactccactggagccct	720			
DB	661	cctgggcgtggggctgctggaactctgtggccaaggtgtgttcaactccactggagccct	720			
QY	721	gctctctgacctcttcgggaaccggacacctatgccaggcctactctgtctatgcttt	780			
DB	721	gctctctgacctcttcgggaaccggacacctatgccaggcctactctgtctatgcttt	780			
QY	781	catgatcagttctggggctgctggcctaccctctgctgccatctgactgggacaccag	840			
DB	781	catgatcagttctggggctgctggcctaccctctgctgccatctgactgggacaccag	840			
QY	841	tgccttgcccccctaccttgggcacccaagggagtgctcttttggcctgctcaacctcat	900			
DB	841	tgccttgcccccctaccttgggcacccaagggagtgctcttttggcctgctcaacctcat	900			
QY	901	cttctctaccttgcgtagcagccacactgctggttgctggagggagcgcgtgggcccacc	960			

```
Qy 1441 gttacattctcagccctgcagatcctgcctacacactggcctccctctacacccggga 1500
Db 1441 GTTACACCTTCACGCCCTGCAGATCTCTGCCCTACACACTGGCCCTCCCTCTACCACCGGA 1500
Qy 1501 gaagcagggtctctctgcccataaccgaggggacactgaggtgctagcagtgaggaag 1560
Db 1501 GAAGCAGGCTGTCTCTGCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAAGACAG 1560
Qy 1561 cctgatgacacagctctcctgcagcccttaagccttgagctcccttccctaataagacagt 1620
Db 1561 CCTGATGACACAGCTTCCTTGCCAGGCCCTTAAGCCTGGAGCTCCCTTCCTTAATGGACAGT 1620
Qy 1621 ggggtcaggagcagtgccctgctcccaacctcccaaccgcgctctgcggggcctctgcctg 1680
Db 1621 GGGTCTGGAGCAGTGGCCTGCTCCACCTCCACCCGGGCTCTGCGGGCCTCTGCCCTG 1680
Qy 1681 tgatgtctccctagcgttggtggtgggtgagcccaaccaggggtgggttcggggcgg 1740
Db 1681 TGATGTCTCCCTAGCTGTGGTGGTGGGTGAGCCCAACCAGGCGCAGGGTGGTTCGGGGCG 1740
Qy 1741 gggcatctgcctgacacctcccatcctctgtagctgctctcctctcctcaggtgacccc 1800
Db 1741 GGGCATCTGCCTGGACCTCGGCATCTCTGGATGCTTCCTCTGCTCCAGGTGGCCCC 1800
Qy 1801 atccctgtttatgggctccattgtccagctcagccagctctgtcactgctctatagtgtc 1860
Db 1801 ATCCCTGTTTATGGGCTCCATTGTCCAGCTCAGCCAGCTGTCTACTGCTTATATGGTGT 1860
Qy 1861 tgcgcagccctgggtctggtgcgcatttaotttgcacacaggttagtatttgacaaag 1920
Db 1861 TGCCGAGCCCTGGGTCTGGTGGCTGACCTTACTTTGCTACAGAGTAGTATTGTGACAAAG 1920
Qy 1921 cgacttgcccaatactcagcgttagaatactccagcacattgggtgagggcctgctgct 1980
Db 1921 CGACTTGCCCAATACTCAGCGTAGAATACTTCCAGCACATTGGGCTGGAGGGCTGGCT 1980
Qy 1981 cactgggtccagctcccgctcctgttagcccaatggggctgcccggctgcccagct 2040
Db 1981 CACTGGGTCCAGCTCCCGCTCCTGTGTAGCCCCATGGGGCTGCGGGCTGGCCCCCAGT 2040
Qy 2041 ttctgtctcccaagtaagtggctctgctgcacacctgctcctgaggtgacta 2100
Db 2041 TTCTGTCTCTGCCAAAGTAATGTGGCTCTCTGCTGCCACCTGTGCTGCTGAGGTGCGTA 2100
Qy 2101 gctgcacagctggggctggggcgtccctctcctctctcctcctcctcctgctgctg 2160
Db 2101 GCTGCACAGCTGGGGCTGGGGCTGCCCTCTCTCTCTCCCAAGTCTCTAGGGCTGCCGTG 2160
Qy 2161 actggagccctccaaggggtttcagctcgtgactatacaggggagccagaagggctcc 2220
Db 2161 ACTGGAGCCCTTCCAAGGGGTTTTCAGTCTGGACTTATACAGGGAGGCCAGAGGGCTCC 2220
Qy 2221 atgcactggaatgcgggactcctcagctgattaccagactcagggcttaacagctagc 2280
Db 2221 ATGCACTGGAATGCGGGACHTCTGCAGGTGGAATTACCCAGGCTCAGGGTTTACAGCTAGC 2280
Qy 2281 ctctctagttgagacacactcctccatgggttttggggagctgaataaaactcagtcactg 2340
Db 2281 CTCCTAGTTGAGACACACTTAGAAGAGGGTTTTTGGGAGCTGAATAAACTCAGTCACCTG 2340
Qy 2341 gtttcccatctcctaagcccttaacctgcagctctcgttttaagttagctcctgcagtgag 2400
Db 2341 GTTTCCCATCTCTAAGCCCCCTTAACCTGCAGCTTCTGTTTAAATGTAGCTCTTGCATGGAG 2400
Qy 2401 ttcttagtatgaacactcctccatgggttgaacatatgactatttgtaggggaaga 2460
Db 2401 TTTCTAGGATGAACACTCTCTCCATGGGATTTGACATATGACTTATTGTAGGGGAAGA 2460
Qy 2461 gtcctgagggggaacacacaagaaccaggtccctccagccacacagcactgtcttttgcct 2520
Db 2461 GTCCTGAGGGGCAACACACAAGAACCAAGGTCCTCCCTCAGCCACACAGCAGCTGTCTTTTGT 2520
Qy 2521 gatecaacccccctcttaacttttatcaggaatgtggcctcgttggtcctctgtgtgcata 2580
```

```
Db 2521 GATCCACCCCTCTTACCTTTTATCAGATGTGCCTGTTGGTCTTCTGTGGCATCA 2580
Qy 2581 cagaacacagggcatttaataatttaactatttatttaacaaatagaagaatccat 2640
Db 2581 CAGAGACACAGCATTTAAATATTTAACTTATTTTAAACAAAGTAGAAGGAATCCAT 2640
Qy 2641 tgcagctcttctgtgtgtgtctaaattttgggtgaggtggtggggtccccaacaatca 2700
Db 2641 TGCTAGCTTTTCTGTGTGGTGTCTAATAATTGGGTAGGGTGGGGATCCCCACAATCA 2700
Qy 2701 ggtcccttgagatagctggttcattgggtgatcattgcagaaatcttctctccctgggt 2760
Db 2701 GGTCCCTTGAGATAGCTGGTGCATTTGGCTGATCAITGGCAGAACTCTCTCTCTCTGGGT 2760
Qy 2761 ctggcccccaaaatgcctaaccaaggaccttggaaattctactcatcccaaatgataat 2820
Db 2761 CTGGCCCCCAAAATGCTTAACCCAGGACCTTGGAAATCTTACTATCCCAATGATAAT 2820
Qy 2821 tccaaatcgtgttaccacagggttaggggtgtgaaggaaggttagaggggtgggtctcaggt 2880
Db 2821 TCCAAATCTGTACCCCAAGGTTAGGGTGTGGAAGAGGTAGAGGGTGGGGCTTCAGGT 2880
Qy 2881 ctcaacggcttcccttaacacacccctctctctgtggccagcctggttcccccaacttca 2940
Db 2881 CTCAACGGCTTCCCTTAACCAACCCCTCTCTCTGTGGCCAGCCTGGTTCGCCCACTTCA 2940
Qy 2941 ctccctctactctctcagactggctgatgaaggaaggttagaggggtgggtctcaggt 3000
Db 2941 CTCCTCTCTACTCTCTCTAGGACTGGGCTGTAGGGTGTGGAAGAGGTAGAGGGTGGGGCT 3000
Qy 3001 cccaaacttccctaccaccccaacttccccaccagctcccaacccctgtttggagctact 3060
Db 3001 CCCAACTTTCCCTTACCCTTACCCTTCCCAACCACTCCACAACCTGTGTGGAGCTACT 3060
Qy 3061 gcaggaaccagaagcaaacagtgccgtttcccaagcctttgtccatctcagccccaggt 3120
Db 3061 GCAGGACCAAGAACAAAGTGGGTTTCCCAAGCCTTTGTCCATCTCAGCCCCCAGAGT 3120
Qy 3121 atactgtgcttggggaactcacaacagaaactcaggaagcaccctcgtcctcagctaaag 3180
Db 3121 ATATCTGTCTGGGGAATCTCACACAACTCAGGAGCACCCCTGCTCAGCTAAGG 3180
Qy 3181 gagtcttatctctcaggggggtttaagtgccgtttgcaataatgtctctattattt 3240
Db 3181 GAGGTCTTATCTCTCAGGGGGGTTTAAAGTGCCGTTTGAATAATGCTCTCTATTATT 3240
Qy 3241 tagcgggtgaaatatttatactactgaagtgaacatcagacatagatattgtgtgaca 3300
Db 3241 TAGCGGGGTGAATAATTTTATCTGTAAGTGACCAATCAGAGTATATATGTTTATGGTGACA 3300
Qy 3301 aaattaaaggcttctctatatgttttaaaaaaataaaaaaataaaaaaataaaaaa 3360
Db 3301 AAATTAAGGCTTCTCTATATGTTTAAAAAATAAAAAAATAAAAAAATAAAAAA 3360
Qy 3361 aaaaaaaraaaaaaataaaaaaataaaaaaataaaaaaataaaaaaataaaaaa 3410
Db 3361 AAAAAAARAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 3410
```

RESULT 3

```
US-09-115-453-110
; Sequence 110, Application US/09115453B
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND
; TITLE OF INVENTION: METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427C4
; CURRENT APPLICATION NUMBER: US/09/115.453B
; CURRENT FILING DATE: 1998-07-14
; NUMBER OF SEQ ID NOS: 228
; SOFTWARE: FastSeq for Windows Version 3.0
```


Qy	1201	agctgagccgggcaacgagggccggagagacacatgatgaagggcgttcggatggyggcagcct	1261
Db	1201	AGCTGAGCCGGGACCGAGGCGCCGGAGACACATATGATGAAGGCGTTCGGATGGCGACGCT	1260
Qy	1261	ggggctgttccctcagtgagccatctccctggtctctctgtgctcatggaacgggtgggt	1320
Db	1261	GGGGCTGTTCCTCGAGTGGCGCATCCCTGGCTCTCTCTGTGTFATGGAACCGGCTGGT	1320
Qy	1321	gcagcgattccggcacctcgagcagctatttggccagtgtagcagcttccccttggtctgc	1380
Db	1321	GCAGCGATTCCGGCACTCGAGCAGCTATTATGGCCAGTGTGGCAGCTTCCCTGTGGCTGC	1380
Qy	1381	cgytgccacatgctgtccacagtgtagcagcttgcgctggtgacagcttcagcgcctcacccg	1440
Db	1381	CGTGTCCACATGCTGTGCCACAGTGTGGCCGTGGTGCAGCTTCAAGCCGCCCTCACCGG	1440
Qy	1441	gttcaacttctagccctgcagatcctgcctatacaactggcctccctctctacacccggga	1500
Db	1441	GTTCAACCTTCTCAGCCCTCGCATCTCGCTTACACATCGGCCCTCCCTCTACCAACCGGGA	1500
Qy	1501	gaagcagtggttctctgccaaatacagaggggacactgagagtgctagcagtgaggacag	1560
Db	1501	GAAGCAGGTGTTCTTGCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAAGACAG	1560
Qy	1561	cctgatcaccagcttctcgcagggccctaaagcctggagctcccttccctaatgacacgt	1620
Db	1561	CCTGATCACCAGCTTCTGCCAGGCCCTAAGCCTTGGAGCTCCCTTCCCTAATGGACACGT	1620
Qy	1621	gggtgtggaggagtggtgctgctccacactccaccccgctctgcggggcctctgctctg	1680
Db	1621	GGGTGTGAGGAGCAGTGGCTGCTGCCACTCCACCTCACCCGCCTCTGCGGGGCTCTGCCTG	1680
Qy	1681	tgatgtccgtacgtgtggttggtgagccaccagaccaggtggttccggggcgg	1740
Db	1681	TGATGTCTCCGTACGTGTGGTGGTGAGCCCAACCGAGGCCAGGGTGTTCGGGGCGG	1740
Qy	1741	gggcatctgctggacctgcacatcctggatgtagtgcctctctgtgtccagggtggcccc	1800
Db	1741	GGGCATCTGCCTGGACCTCGCCATCCTGATAGTGCCTTCTGCTGTCCCAAGGTGGCCCC	1800
Qy	1801	atccctgttatgggttcacattgtccagctcagccagctctgtcactgcctatatggctgc	1860
Db	1801	ATCCCTGTTTATGGGTCCATTGTCCAGCTCAGCCAGCTGTCTACTGCCCTATATGTTGTTG	1860
Qy	1861	tggcgaagcctgggtctggtgcacatttacttctgtcacagtagtatttcaacaag	1920
Db	1861	TGCCGCAAGGCTGGGTCTGGTGCCTATTACTTTTCTACAGAGTAGTATTGTACAAGAG	1920
Qy	1921	cgacttggccaaatactcagctagataaaacttccagcacattgggttggaggggcctgcct	1980
Db	1921	CGACTTGGCCAAATACTCAGCTAGAAAACATTCCAGCACATTGGGTTGGAGGCCCTGCCT	1980
Qy	1981	cactgggtcccaagctcccgctcctgttagcccaattggggctgcgggctggcccgcaagt	2040
Db	1981	CACTGGGTCCCAAGCTCCCGCTCCTGTTAGCCCCATGGGGCTGCGGGCTGGCGCCAGT	2040
Qy	2041	tctgttgcgtccaaagtaagtgcctctgtctgcaccctgtgcctgcctgaagtgagta	2100
Db	2041	TTCTGTGTCTGCCAAAGTAAATGTGGCTCTGTCTGCCACCTGTGTCTGTAGGTGGGTA	2100
Qy	2101	gctgcacagctggggctggggcgtccctctctctctctcccaagctctctagggctgctg	2160
Db	2101	GCTGCACAGCTGGGGCTGGGGCGTCCCTCTCTCTCTCCCCAGTCTTAGGGCTGCCTG	2160
Qy	2161	actggaggccttccaagggggtttcagctctgagctattacaggagggccagaagggtctcc	2220
Db	2161	ACTTGAAGGCCTTCCAAGGGGTTTCAGCTGAGCTTATACAGGAGAGGCCAAGAGGGCTCC	2220
Qy	2221	atgcactgaatgcgggagactctcagctggaattaccaggtcaggggttaaacagctagc	2280
Db	2221	ATGCACCTGGAATCGGGGAGCTCTGCAGGTGGAATACCCAGGCTCAGGGGTAAACAGCTAGC	2280
Qy	2281	ctctcagttgagacacacctagagaagggttttttgggagctggaataaacactcagtcacctg	2340

[illegible]

32 3409.6 100.0 3410 27 US-09-688-489-110 Sequence 110, App
 33 3409.6 100.0 3410 28 US-09-709-729-110 Sequence 110, App
 34 3409.6 100.0 3410 29 US-09-745-288-100 Sequence 100, App
 35 3409.6 100.0 3410 29 US-09-759-143-110 Sequence 110, App
 36 3409.6 100.0 3410 30 US-09-778-381-100 Sequence 100, App
 37 3409.6 100.0 3410 30 US-09-780-669-110 Sequence 110, App
 38 3409.6 100.0 3410 31 US-09-822-827-110 Sequence 110, App
 39 3409.6 100.0 3410 32 US-09-852-911-110 Sequence 110, App
 40 3409.6 100.0 3410 33 US-09-895-793-110 Sequence 110, App
 41 3409.6 100.0 3410 33 US-09-895-814-110 Sequence 110, App
 42 3409.6 100.0 3410 37 US-10-006-920-110 Sequence 110, App
 43 3409.6 100.0 3410 37 US-10-010-940-110 Sequence 110, App
 44 3409.6 100.0 3410 37 US-10-012-896-110 Sequence 110, App
 45 3318.2 97.3 3556 71 US-60-324-185-17685 Sequence 17685, A

ALIGNMENTS

RESULT 1
 US-09-020-747-110
 ; Sequence 110, Application US/09020747
 ; GENERAL INFORMATION:
 ; APPLICANT: Xu, Jiangchun
 ; APPLICANT: Dillin, Davin C.
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNODIAGNOSIS OF PROSTATE CANCER AND METHODS
 ; NUMBER OF SEQUENCES: 178
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: SEED and BERRY LLP
 ; STREET: 6300 Columbia Center, 701 Fifth Avenue
 ; CITY: Seattle
 ; STATE: WA
 ; COUNTRY: USA
 ; ZIP: 98104
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/020,747
 ; FILING DATE: 09-FEB-1998
 ; CLASSIFICATION:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Maki, David J.
 ; REGISTRATION NUMBER: 31,392
 ; REFERENCE/DOCKET NUMBER: 210121.428C2
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (206) 622-4900
 ; TELEFAX: (206) 682-6031
 ; INFORMATION FOR SEQ ID NO: 110:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 3410 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: cdna
 ; ORIGINAL SOURCE:
 ; ORGANISM: Homo sapiens
 ; US-09-020-747-110

Query Match 100.0%; Score 3409.6; DB 14; Length 3410;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 gggaccagctgcacgcgtgctccgggtgacagccgcgcctcgccagcatctga 60
 Db 1 gggaaacagctgcacgcgtgctccgggtgacagccgcgcctcgccagcatctga 60
 Qy 61 gtgatgagacgtgtccccactgagtgccccacagcagcaggtgtgagcatgggctgag 120
 Db 61 gtgatgagacgtgtccccactgagtgccccacagcagcaggtgtgagcatgggctgag 120

Qy 121 aagctggaccggcaccacaaagggctggcagaaatggcgccctggctgattctctaggaagt 180
 Db 121 AAGCTGACCGGCACCAAGGGCTGGCAGAAATGGCGCCTGGCTGATTCTTAGGCAAGT 180
 Qy 181 ggcgcagacaagagagagagggccgcagcttctgagcagagccgagacaagcagttctg 240
 Db 181 GCGCGCAGCAAGAGAGAGAGGGCGGCGAGCTTCTGGACAGAGCCGAGACCAAGCAGTCTG 240
 Qy 241 gagtgcctgaagggccccctgagccctacccgcctggccactatggtccagagggtg 300
 Db 241 GAGTGCCTGAACGGCCCCCTGAGCCCTACCGCCTGGCCACTATGATCCAGAGGCTGTG 300
 Qy 301 ggtgagccctgctgctggcagccggaaagccagctcttctgctggtcaacctgtacacct 360
 Db 301 GGTGAGCCGCTGCTGCGGCACCGGAAAGCCAGCTCTTGTGCTCAACCTGCTAAACCTT 360
 Qy 361 tggcctggaggtgtgttggccgcagcagcatcaccatgtgcccctctgctgctggaagt 420
 Db 361 TGGCCTGGAGGTGTGTTGGCCGCAGCATACCTATGTGCGCCCTCTGCTGCTGGAAGT 420
 Qy 421 gggggttagaggaagttcatgaccatggtgctgggcatggtccagtgctgggctggt 480
 Db 421 GGGGTTAGAGGAGAAGTTCATGACCATGCTGGCTGGCATGTTGGTCCAGTGGCTGGGCTGT 480
 Qy 481 ctgtctccgcctcctagggctcagcagtgacacactggcgtggaagcgtatggccgcgcg 540
 Db 481 CTGTGTCGCGCTCTCTAGGCTCAGCCAGTACCCTGGCTGGAGCGCTATGGCCGCGCGG 540
 Qy 541 gcccttcacttggcactgtccttgggcatcctgctgagcctcttctctatcccaagggc 600
 Db 541 GCCCTTCATCTGGGCACTGTCCTTGGGCATCCTGCTGCTGAGGCTCTTCTCATCCCAAGGC 600
 Qy 601 cggctggctagcagggtgctgtgcccggatcccaagccctggagcgtgagcactgctcat 660
 Db 601 CGGCTGGCTAGCAGGGCTGCTGTGCCGGATCCAGGCCCTCGAGCTGGCATGCTCAT 660
 Qy 661 cctggcgctgggctcctgagactctgtgcccagggtgcttcaactcactgagggcct 720
 Db 661 CCTGGCGGTGGGCTGCTGGACCTTCTGTGCCAGAGTGTGCTTCACTCCACTGGAGGCCCT 720
 Qy 721 gctctctgacctcttcggggaacccggaccactgtccagggcctactctctctatgacct 780
 Db 721 GCTCTCTGACCTCTTCGGGAGACCCGGACCACTGTGCGCAGGCGCTACTCTCTATGCTT 780
 Qy 781 catgatacgtcttgggggctgctggcctacctctctctcctgacattgacaggacacag 840
 Db 781 CATGATCAGTCTTGGGGGCTGCTGGGCTACCTCCTGCTGCTGCTGCTGCTGCTGCTGCT 840
 Qy 841 tgcctggcccccctacctggggaacccagagagaggtgctcttggcctgctcaccctcat 900
 Db 841 TGGCCTGGCCCCCTACTTGGGCAACCCAGAGGAGTGGCTCTTTGGCCTGCTCACCCTCAT 900
 Qy 901 ctctctcactcgttagcagcacaactgctggtggtgagaggcagcgtggggcccccac 960
 Db 901 CTCTCTCACCCTGCTAGCAGCCACACTGCTGGTGGCTGAGGAGGACGCGTGGGCCCCAC 960
 Qy 961 cgagccagacaagggctgctggcccccctctgtgccccactgctgctcactgcccgggc 1020
 Db 961 CGAGCCAGCAGAGGGGCTGTGCGCCCCCTCTCTGTGTCGCCCACTGCTGCTGCTGCTGCT 1020
 Qy 1021 ccgctgtgcttccgggaacctgggcccctgcttccccggctgacacagctgtgctgccc 1080
 Db 1021 CCGCTTGGCTTTCGGGAACCTGGGCGCCCTGCTTCCCGCGCTGCAACAGCTGTGCTGCCG 1080
 Qy 1081 catgccccgcacccctgcccgcgtctctgctgagctgagctgagctggatggacactcat 1140
 Db 1081 CATGCCCGCACCCCTGCGCGGGCTCTTCTGCTGGCTGAGCTGTGAGCTGGATGGGCACTCAT 1140
 Qy 1141 gaccttcacactgttttacacgaatttcgtggcgagggcgtgtaccagggcgtggccag 1200
 Db 1141 GACCTTCACGCTGTGTTTACACGGAATTCGTGGGGCGAGGGCTGTACCAGGGCGTGGCCAG 1200

GenCore version 4.5
Copyright (c) 1993 - 2000 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: July 11, 2002, 22:57:27 ; Search time 4129.06 Seconds
(without alignments)
17867.264 Million cell updates/sec

Title: US-09-605-783A-110
Perfect score: 3410
Sequence: 1 ggggaaccagctgcacgcgc.....aaaaaaaaaaaaaaaaaaaa 3410

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 21979536 seqs, 1081749327 residues
Total number of hits satisfying chosen parameters: 43959072

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Pending_Patents_NA_Main.*
1: /cgn2_6/ptodata/1/pna/PCRTUS_COMB.seq.*
2: /cgn2_6/ptodata/1/pna/US06_COMB.seq.*
3: /cgn2_6/ptodata/1/pna/US07_COMB.seq.*
4: /cgn2_6/ptodata/1/pna/US080_COMB.seq.*
5: /cgn2_6/ptodata/1/pna/US081_COMB.seq.*
6: /cgn2_6/ptodata/1/pna/US082_COMB.seq.*
7: /cgn2_6/ptodata/1/pna/US083_COMB.seq.*
8: /cgn2_6/ptodata/1/pna/US084_COMB.seq.*
9: /cgn2_6/ptodata/1/pna/US085_COMB.seq.*
10: /cgn2_6/ptodata/1/pna/US086_COMB.seq.*
11: /cgn2_6/ptodata/1/pna/US087_COMB.seq.*
12: /cgn2_6/ptodata/1/pna/US088_COMB.seq.*
13: /cgn2_6/ptodata/1/pna/US089_COMB.seq.*
14: /cgn2_6/ptodata/1/pna/US090_COMB.seq.*
15: /cgn2_6/ptodata/1/pna/US091_COMB.seq.*
16: /cgn2_6/ptodata/1/pna/US092_COMB.seq.*
17: /cgn2_6/ptodata/1/pna/US093_COMB.seq.*
18: /cgn2_6/ptodata/1/pna/US094_COMB.seq.*
19: /cgn2_6/ptodata/1/pna/US095A_COMB.seq.*
20: /cgn2_6/ptodata/1/pna/US095B_COMB.seq.*
21: /cgn2_6/ptodata/1/pna/US095C_COMB.seq.*
22: /cgn2_6/ptodata/1/pna/US095D_COMB.seq.*
23: /cgn2_6/ptodata/1/pna/US096A_COMB.seq.*
24: /cgn2_6/ptodata/1/pna/US096B_COMB.seq.*
25: /cgn2_6/ptodata/1/pna/US096C_COMB.seq.*
26: /cgn2_6/ptodata/1/pna/US096D_COMB.seq.*
27: /cgn2_6/ptodata/1/pna/US096E_COMB.seq.*
28: /cgn2_6/ptodata/1/pna/US097A_COMB.seq.*
29: /cgn2_6/ptodata/1/pna/US097B_COMB.seq.*
30: /cgn2_6/ptodata/1/pna/US097C_COMB.seq.*
31: /cgn2_6/ptodata/1/pna/US098A_COMB.seq.*
32: /cgn2_6/ptodata/1/pna/US098B_COMB.seq.*
33: /cgn2_6/ptodata/1/pna/US098C_COMB.seq.*
34: /cgn2_6/ptodata/1/pna/US099A_COMB.seq.*
35: /cgn2_6/ptodata/1/pna/US099B_COMB.seq.*
36: /cgn2_6/ptodata/1/pna/US099C_COMB.seq.*
37: /cgn2_6/ptodata/1/pna/US100_COMB.seq.*
38: /cgn2_6/ptodata/1/pna/US101_COMB.seq.*
39: /cgn2_6/ptodata/1/pna/US6000_COMB.seq.*
40: /cgn2_6/ptodata/1/pna/US6001_COMB.seq.*
41: /cgn2_6/ptodata/1/pna/US6002_COMB.seq.*
42: /cgn2_6/ptodata/1/pna/US6003_COMB.seq.*
43: /cgn2_6/ptodata/1/pna/US6004_COMB.seq.*

44: /cgn2_6/ptodata/1/pna/US6005_COMB.seq.*
45: /cgn2_6/ptodata/1/pna/US6006_COMB.seq.*
46: /cgn2_6/ptodata/1/pna/US6007_COMB.seq.*
47: /cgn2_6/ptodata/1/pna/US6008_COMB.seq.*
48: /cgn2_6/ptodata/1/pna/US6009_COMB.seq.*
49: /cgn2_6/ptodata/1/pna/US6010_COMB.seq.*
50: /cgn2_6/ptodata/1/pna/US6011_COMB.seq.*
51: /cgn2_6/ptodata/1/pna/US6012_COMB.seq.*
52: /cgn2_6/ptodata/1/pna/US6013_COMB.seq.*
53: /cgn2_6/ptodata/1/pna/US6014_COMB.seq.*
54: /cgn2_6/ptodata/1/pna/US6015_COMB.seq.*
55: /cgn2_6/ptodata/1/pna/US6016_COMB.seq.*
56: /cgn2_6/ptodata/1/pna/US6017_COMB.seq.*
57: /cgn2_6/ptodata/1/pna/US6018_COMB.seq.*
58: /cgn2_6/ptodata/1/pna/US6019_COMB.seq.*
59: /cgn2_6/ptodata/1/pna/US6020_COMB.seq.*
60: /cgn2_6/ptodata/1/pna/US6021_COMB.seq.*
61: /cgn2_6/ptodata/1/pna/US6022_COMB.seq.*
62: /cgn2_6/ptodata/1/pna/US6023_COMB.seq.*
63: /cgn2_6/ptodata/1/pna/US6024_COMB.seq.*
64: /cgn2_6/ptodata/1/pna/US6025_COMB.seq.*
65: /cgn2_6/ptodata/1/pna/US6026_COMB.seq.*
66: /cgn2_6/ptodata/1/pna/US6027_COMB.seq.*
67: /cgn2_6/ptodata/1/pna/US6028_COMB.seq.*
68: /cgn2_6/ptodata/1/pna/US6029_COMB.seq.*
69: /cgn2_6/ptodata/1/pna/US6030_COMB.seq.*
70: /cgn2_6/ptodata/1/pna/US6031_COMB.seq.*
71: /cgn2_6/ptodata/1/pna/US6032_COMB.seq.*
72: /cgn2_6/ptodata/1/pna/US6033_COMB.seq.*
73: /cgn2_6/ptodata/1/pna/US6034_COMB.seq.*
74: /cgn2_6/ptodata/1/pna/US6035_COMB.seq.*
75: /cgn2_6/ptodata/1/pna/US6036_COMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
1	3409.6	100.0	3410	14	US-09-020-747-110 Sequence 110, App
2	3409.6	100.0	3410	14	US-09-030-606-110 Sequence 110, App
3	3409.6	100.0	3410	15	US-09-115-453-110 Sequence 110, App
4	3409.6	100.0	3410	15	US-09-116-134-110 Sequence 110, App
5	3409.6	100.0	3410	15	US-09-159-812-110 Sequence 110, App
6	3409.6	100.0	3410	15	US-09-159-822-110 Sequence 110, App
7	3409.6	100.0	3410	16	US-09-232-149-110 Sequence 110, App
8	3409.6	100.0	3410	16	US-09-232-149A-110 Sequence 110, App
9	3409.6	100.0	3410	16	US-09-232-880-110 Sequence 110, App
10	3409.6	100.0	3410	16	US-09-288-946-110 Sequence 110, App
11	3409.6	100.0	3410	16	US-09-288-950-100 Sequence 100, App
12	3409.6	100.0	3410	17	US-09-346-327-100 Sequence 100, App
13	3409.6	100.0	3410	17	US-09-352-616A-110 Sequence 110, App
14	3409.6	100.0	3410	18	US-09-443-886-110 Sequence 110, App
15	3409.6	100.0	3410	18	US-09-483-672A-110 Sequence 110, App
16	3409.6	100.0	3410	20	US-09-536-857-110 Sequence 110, App
17	3409.6	100.0	3410	22	US-09-568-100A-110 Sequence 110, App
18	3409.6	100.0	3410	22	US-09-593-793A-110 Sequence 100, App
19	3409.6	100.0	3410	23	US-09-602-877-100 Sequence 100, App
20	3409.6	100.0	3410	23	US-09-602-877A-100 Sequence 100, App
21	3409.6	100.0	3410	23	US-09-605-783A-110 Sequence 110, App
22	3409.6	100.0	3410	23	US-09-605-785-110 Sequence 110, App
23	3409.6	100.0	3410	24	US-09-636-215-110 Sequence 110, App
24	3409.6	100.0	3410	25	US-09-651-236-110 Sequence 110, App
25	3409.6	100.0	3410	25	US-09-657-279-110 Sequence 110, App
26	3409.6	100.0	3410	26	US-09-679-272-110 Sequence 110, App
27	3409.6	100.0	3410	26	US-09-679-426-110 Sequence 110, App
28	3409.6	100.0	3410	27	US-09-685-166-110 Sequence 110, App
29	3409.6	100.0	3410	27	US-09-685-166A-110 Sequence 110, App
30	3409.6	100.0	3410	27	US-09-687-507-100 Sequence 100, App
31	3409.6	100.0	3410	27	US-09-687-507A-100 Sequence 100, App

REFERENCE	1 (bases 1 to 482)
AUTHORS	Walker,M.G., Volkmut,W., Sprinzak,E., Hodgson,D. and Klingler,T.
TITLE	Prediction of gene function by genome-scale expression analysis: prostate cancer-associated genes
JOURNAL	Genome Res. 9 (12), 1198-1203 (1999)
MEDLINE	20082966
COMMENT	Contact: Walker MG Incyte Pharmaceuticals 3174 Porter Drive, Palo Alto, CA 94304, USA co-expressed with known prostate-cancer genes. Location/Qualifiers
FEATURES	Location/Qualifiers
source	1..482 /organism="Homo sapiens" /db_xref="taxon:9606" /clone="IPCA-2" /clone_lib="Homo sapiens prostate adult" /issue_type="prostate" /dev_stage="adult" /note="multiple clone assembly from multiple libraries and donors"
BASE COUNT	57 a 179 c 141 g 105 t
ORIGIN	
Query Match	13.6%; Score 462.6; DB 9; Length 482;
Best Local Similarity	99.0%; Pred.No. 3.6e-37;
Matches 476; Conservative 0; Mismatches 4; Indels 1; Gaps 1;	
QY	666 gcgtgggctgcgtggacttcgt-ggcagtgctgtcctaactccaactcgaggccctgc 724
Db	2 GCGTGGGCTCGTGGACTTCGTGTGGGCAGGTGTGCTTCACTCCACTGGAGGCCCTGCTC 61
QY	725 tcgaaccttccgggaccggaccaactgtcgccaggcctaactctgtctatgccttcagt 784
Db	62 TCTGACCTCTCCGGGACC CGGACCACTGTGCGCAGGCTTACTTGCTATGCTTCATG 121
QY	785 atcagttctggggctgcctgggctacctctcctgcctgccattgactgggacaccagtgcc 844
Db	122 ATTAGTCTTGGGGCTGCCTGGGCTACCTCCTGCCTGCCATTGACTGGGACACCA GTGC 181
QY	845 ctggccccctaacctgggaccccaggaggagtgctcttttgacctgtcacctcatcttc 904
Db	182 CTGGCCCCCTACCTGGGCACCCCAGGAGAGTGCTCTTTGGCCTGTCACTCATCTTC 241
QY	905 ctcaactcgctagcagccacaactgctggtggtcgagagcgagcgctgggccccaccag 964
Db	242 CTCACCTGCGTAGAGCCACACACTGCTGTGGCTGAGGAGCGGCTGGCCCCCACCGAG 301
QY	965 ccaggagaagggtgtgtggccccctcttgtcgcccccaactgctgtccatgccgggccgc 1024
Db	302 CCAGCAGAAGGGGTGTGGGCCCTCCTTGTGCCCCACTGCTGTCCATGCCGGGGCCGC 361
QY	1025 ttggcttcggaaactgggagccctgcttccccggctgcaccagctgtgtccgcgatg 1084
Db	362 TTGGCTTTCGGAACTTGGCGCCCTGCTTCCCGGGCTGCACAGCTGTGCTGCCGATG 421
QY	1085 ccccgcaacctgcgcggctcttcgtgtgtgtagctgtgcagctggatggcaactcatgacc 1144
Db	422 CCCCGCACCTTGGCGGGGCTCTTCGTGGCTGTAGCTGTGCAGCTGGATGGCACTCATGACC 481
QY	1145 t 1145
Db	482 T 482
RESULT 15	
LOCUS	BGI73136 969 bp mRNA linear EST 06-FEB-2001
DEFINITION	60233541fl1 NCI_CCAP_Mam1 Mus musculus cdna clone IMAGE:4458602 5'; mRNA sequence.
ACCESSION	BGI73136
VERSION	BGI73136.1 GI:12679748
KEYWORDS	EST.

SOURCE	house mouse.
ORGANISM	Mus musculus
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 969)
AUTHORS	NIH-MGC http://mgc.nci.nih.gov/ .
TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)
COMMENT	Unpublished (1999) Contact: Robert Strausberg, Ph.D. Email: cga@b.jr@mail.nih.gov Tissue Procurement: Gilbert Smith, Ph.D. cDNA Library Preparation: Life Technologies, Inc. cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA sequencing by: Incyte Genomics, Inc. Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Plate: LLNL10257 row: e column: 03 High quality sequence stop: 608. Location/Qualifiers
FEATURES	1..969
source	/organism="Mus musculus" /strain="FVB/N" /db_xref="taxon:10090" /clone="IMAGE:4458602" /clone_lib="NCLCGAP_Maml" /tissue_type="tumor, biopsy sample" /dev_stage="10 months, virgin" /lab_host="DH10B" /note="Organ: mammary; Vector: pCMV-SPORT6; Site_1: SalI; Site_2: NotI; Cloned unidirectionally. Primer: Oligo dt. Library constructed by Life Technologies. Investigator providing samples: Gilbert Smith, NIH"
BASE COUNT	199 a 289 c 287 g 194 t
ORIGIN	
Query Match	13.5%; Score 459; DB 10; Length 969;
Best Local Similarity	82.9%; Pred. No. 6.3e-37;
Matches	593; Conservative 0; Mismatches 115; Indels 5; Gaps 5;
QY	839 agtgcctggccccctacctggcgacccacaggagagtgaccttttggcctgctcacccctc 898
Db	1 AGGCTTTGCGCCCTACCTGGGTACTCAGAGAGATGGCTCTTTGGCCCTCCTACGCCCTC 60
QY	899 atctctcaactcgttagcagccacactgctggtgctgagaggcagcgctgggccc 958
Db	61 ATTTTCTCATCTGCATGGCGCCACTCTGTTGTGACGGAGGAGGCTACTGGGCCCA 120
QY	959 accgagccagcagaaggctgtgcggccccctcttbtgcgcccaactgctgtccatgccgg 1018
Db	121 CCGAGCGCGCAGAAAGGGTTGTTGGTCTCTGCCGTGTCGCCCGCGATGCTGCCCATGCCAC 180
QY	1019 gccgcttggtcttcggaaacttggcgccctcttcccgcgtgcacagctgtgctgc 1078
Db	181 GTTGGCTTGCCTTTCCGGAATCTGGGTACCCCTGTTTCCCGGCTGGCAGACTGTGCTGC 240
QY	1079 cgcattgcccgacacctggccggctcttctgtggctgagctgctgcagctggatggcactc 1138
Db	241 CGCATGCTCGCACCTACGCCCACTCTTGTGGCTGAGCTGTGTCAGCTGGATGGCACTT 300
QY	1139 atgacctcaactgttttacacgatttcgtggcgaggcgctgtaccaggcgctgccc 1198
Db	301 ATGACTTTACACTGTCTTACACGGACTCTCGTGGGAGAGGGGCTGTACCA-GGTGTACCC 359
QY	1199 agagctgagcggcgaccaggcccgagacacatgatgaagcgcttcggatggcgagc 1258
Db	360 AGAGCCGAGCCAGGCACCGAGG-CCGGAGACACTATGATGAAGGCATTCGAATGGCAGC 418
QY	1259 ctggggctgttctgcagtcggcactcctcctggttcttctctgtgctatggaccggctg 1318
Db	419 CTGGGGCTCTCTCTGAGTGTCATCTCCCTGGTCTTCTCCCTGGTCATGGGACAGCTG 478

Db 361 GGGCCACCCGAGCGGAGAGGGTGTGTGGTCTCTGCGGTGTGCGCGGATGCTGCC 420
QY 1012 atccggggccggttggtcttcggaaacctgggcgccctgtcttcgccgggtgcaccagct 1071
Db 421 ATGCCAGTTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCT 480
QY 1072 gtgctgcgcatcccccgcaccctgcgcccgtctcttctggtgagctgtgacgtggat 1131
Db 481 GTGCTGCCGATGCTCGCACCCCTACGCCGACTCTTTGTGGCTGAGCTGTGCAGCTGGAT 540
QY 1132 ggcactcatgacctcagctgttttacacgagatttcgtggcgaggggtgtaccagg 1191
Db 541 GGCACTTATGACTTTCACACTGTTCACACGGACTTCGTGGGAGGGGTGTAAACAGG 600
QY 1192 cgtgccagagctgagcggcgaccgagccgagagacacatgatgaagcgttcgga- 1250
Db 601 TGTACCAGAGCGAGCAGCAGCAGCGAGCGCGGAGACACATGATGAAGGCATTGAAA 660
QY 1251 -tgggagcctggggc 1265
Db 661 TGGGGCAGCCTGGGGC 676

RESULT 13
BI650119 901 bp mRNA linear EST 12-SEP-2001
LOCUS 603296208F1 NTH_CGAP_Mam3 Mus musculus cDNA clone IMAGE:5337073 5',
DEFINITION mRNA sequence.
ACCESSION BI650119
VERSION BI650119.1 GI:15564355
KEYWORDS EST.
SOURCE house mouse.
ORGANISM Mus musculus
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 901)
AUTHORS NIH-MGC <http://mgc.nci.nih.gov/>.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabbs@remail.nih.gov
Tissue Procurement: Lothar Hennighausen Ph.D., Chu-Xia Deng Ph.D.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
Plate: LLAM1855 row: p column: 02
High quality sequence stop: 778.
Location/Qualifiers
1. .901
/organism="Mus musculus"
/db_xref="taxon:10090"
/clone="IMAGE:5337073"
/clone_lib="NIH_CGAP_Mam3"
/tissue_type="tumor, gross tissue"
/lab_host="DH10B"
/note="Organ: mammary; Vector: pCMV-SPORT6; Site_1: NotI;
Site_2: SalI; Cloned unidirectionally. Primer: Oligo dt.
Average insert 2 kb. Library constructed by Life
Technologies, catalog #12017-018. Investigators providing
samples: Lothar Hennighausen/Chu-Xia Deng, NIH Reference
for transgenic model: Xu et al., Nature Genetics 22, 37-43
(1999). Note: this is a NCI_CGAP Library."

BASE COUNT 151 a 260 c 288 g 202 t
ORIGIN

Query Match 13.6%; Score 463; DB 10; Length 901;
Best Local Similarity 78.5%; Pred. No. 2.6e-37;
Matches 684; Conservative 0; Mismatches 165; Indels 22; Gaps 10;

QY 1 gggaaaccagcctgcaagcgcgtggtctccgggtgacagccgcgcgcctcgccagagatctga 60
Db 42 GTGTCCGAGTCTGCACGCGCAGCCAGTGCACGCGCAGCC- GGGCCAGGATCTGA 100
QY 61 gtatgaagacgtatccccactgaggt--gccccaagcagcaggtgtttagcatggct 117
Db 101 CCAGCAGAGATGTGTCCCACTCAAGCAAGCACTAGATGTGTAGCTGTATTAGCTGGGAC 160
QY 118 gagaagctgacccgycaccacaaagggtggcagaaatggcgccctggcgtgattcttaggca 177
Db 161 GAGATGCTGAATTGGCACTTAAGGGCTGGCAGAAATGGGAACCTGGCTGCACCCCTAGGAG 220
QY 178 gttggcgcgcaagagagagagagcgcgcagctctctggagcagagccgagacagagct 237
Db 221 GTTAGTGTCTAGTAGGAGGAGAGAACCCAC-----GGCAGGGCTACTCAAGAGCT 271
QY 238 ctgagtgccctgaacggccccctgagccctaccgcgcctggccactatggtccagaggt 297
Db 272 GTGAGTATGTAGTAGCCCTGGAACCTTACTGCTGCCTGTCCATCATGATCCAGAGGCT 331
QY 298 gttgggtgagccgcctgctgcgcgcgcggaaagccccagctctctggtgtaacctgctaac 357
Db 332 GTGGCCAGCCGCTCTGTACGGCAGCGGAAAGCTCAGCTCCTGTGCTGAACCTGCTCAC 391
QY 358 ctttgccctgagaggtgtgtttggcgcgcagcaccatcatgctgcgcctgctgctgga 417
Db 392 CTTTGGCCTGGAGGTGTGCTGCTGCCGCACTTACCTATGTGCCACCCCTCTGCTTGA 451
QY 418 agtggggtagagagagaagtctcatgaccatggtgctgggcattggtccagtgctggcct 477
Db 452 AGTCGGGTGGAGAGAAATTCATGACCATGGTGTGGGCATTGGCCCACTGTAGGCT 511
QY 478 ggtctgtccccctctcctagcctgacccagtcagccactggcgtggagcgtatggccgcg 537
Db 512 GGTTCCTGTTCCACTCCTAGGCTCAGCCAGTGCACCATGTCGCGGTGGCGCTATGGCCCGC 571
QY 538 ccggccctcatctggcgcctctcttggcctcctctgctgagcctcttctcattcccaag 597
Db 572 GACACCTTTATCTGGCTTTGTCCTGGGTGCTGCTAAGCCTCTTTCTCATCCCGAG 631
QY 598 ggcgcgtgctgtagcagggtgctgtgtgccggatccccagcccccctggagctggcactgct 657
Db 632 GGCTGGCTGGCTGGCAGGACTGTGTACCCAGACATCAGGCCCTCGGAGTTGGCCCTGCT 691
QY 658 catctctggcgtgggctgctggaactctgtgcccaggtgct--tcactccactggag 715
Db 692 GATCTTGGGAGTGGGCTGCTGGACGT-TGTGGCCAGGTGTGCTTTGACTCCATTGGAG 750
QY 716 gcctgctctctga--cctcttcgggagcccgaccac-tgtcgccaggcctactctgtc 772
Db 751 GCCTTACTCTCCGAACCTCTTCCGGGACCCAGACCACTTGGCGCAAGGCTTCTCTGTC 810
QY 773 -tatgctctcatgactgtcttgggggctgcct-gggctacctctcctgcctgcaattgact 830
Db 811 TTACGCCCTCTCTGATCAGCCTTGGGGCTGCTGGGGTTACCTTCTTACTGCGCGTCTT 870
QY 831 ggcaca-ccagtgccctggccccctacctgg 860
Db 871 GGGACACCCAGCGTTCTGGGCCCCCTACTGGG 901

RESULT 14
AF109299
LOCUS AF109299
DEFINITION Homo sapiens prostate adult Homo sapiens cDNA clone IPCA-2
ACCESSION AF109299
VERSION AF109299.1 GI:6782692
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

[illegible]

```
Db 482 AGGTTGTGAACGAAGTAGAGGGTGGGGCTTCAGGCTTCAACGGCTTCCCTAAACCA 541
QY 2902 cctctctcttgccacagcct-gggtcccccacactccactccctc 2948
|||||
Db 542 CCCTCTCTCTTGCCACGAGCTGGGTTCGCCCATTTCCACTCCCTC 589

RESULT 10
BG122427
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM

Homo sapiens
715 bp mRNA linear EST 30-JAN-2001
602353324F1 NIH_MGC_90 Homo sapiens cDNA clone IMAGE:4451572 5',
mRNA sequence.
BG122427
BG122427.1 GI:12615936
EST.
human.

REFERENCE
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 715)
TITLE
NIH-MGC http://mgc.nci.nih.gov/.
NATIONAL INSTITUTES OF HEALTH, MAMMALIAN GENE COLLECTION (MGC)
UNPUBLISHED (1999)
CONTACT: Robert Strausberg, Ph.D.
Email: cgabbs-remail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAM10238 row: p column: 05
High quality sequence stop: 689.
Location/Qualifiers
1..715
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:4451572"
/clone_lib="NIH_MGC_90"
/tissue_type="adenocarcinoma, cell line"
/lab_host="PH10B (phage-resistant)"
/notes="Organ: liver; Vector: pCMV-SPORT6; Site:1: NotI;
Site:2: SalI; Cloned unidirectionally; oligo-dT primed.
Average insert size 1.7 Kb. Library enriched for
full-length clones and constructed by Life Technologies.
Note: this is a NIH_MGC Library."

BASE COUNT 176 a 174 c 175 g 190 t
ORIGIN

Query Match 15.4%; Score 525; DB 10; Length 715;
Best Local Similarity 94.5%; Pred. No. 2.2e-43;
Matches 664; Conservative 0; Mismatches 25; Indels 14; Gaps 11;

QY 2211 gaagggtccatgcactgaatcgaggactctgagggtgattaccacagctcagggtt 2270
|||||
Db 1 GAAGGGCTCCATGCATGGAATCGGGGACTCTGCAGGTGGATTACCGAGCTCAGGGTT 60

QY 2271 aacagctagcctctagtgagacacacacacacacacacacacacacacacacacac 2330
|||||
Db 61 AACAGCTAGCCTCCTAGTTGAGACACACCTAGAGAGGGG-TTTTGGGAGCTGAATAACT 119

QY 2331 cagtcacctggtttcccatctctaagcccttaacctgcagcttcggttaattagctct 2390
|||||
Db 120 CAGTCACTCGTTTCCCATCTCTAAGCCCTTAACCTGCAGCTTCGTTTAACTAGTCT 179

QY 2391 tgcattgggaattcttagatgaacactctcactcctcattgattgaacatag-actattt 2449
|||||
Db 180 TGCATGGAGTTCTTAGGATGAACACTCTCTCCATGGGATTTGAACATGAAGTTATT 239

QY 2450 gtaggggaaagactcctgagggggcaacacacacacacacacacacacacacacacacac 2509
|||||

Db 240 GTAGGGGAAGAGTCGTGAGGGGCAACACACAGAACACAGGTCCTCCCTCAG-CCACAGCACT 298
QY 2510 gtcttttgcgtatccacccccctcttaccttttatacagatgtgacctgtgttccttc 2569
|||||
Db 299 GTC-TTTTGTGCTGATCCACCCCTCTTACCTTTTATCAGAGTGGCTG-TGTCCTCTC 356
QY 2570 tgttgccatcacagagacacagcagcatttaaatatttatttataaataaagtaga 2629
|||||
Db 357 TGTTCGCATCACAGAGACACAGGCAATTAATAATTTAACTATTATTATTAACAAAGTAGA 416
QY 2630 agggaaatccatgctagctttctgtgttggtctcctaatttgggttaggg-Lgggggagat 2688
|||||
Db 417 AGGGAATCCATTCTGCTAGCTTTACTGTGGGTGTCTAATAATTAGGTAGGGCTGGGGGAT 476
QY 2689 ccccaacaatcaggtccctcctgagatagctggttcattgggtgctatcattgcccagaatc-tt 2747
|||||
Db 477 CCCCAACAATCAGTCCCTCGATAGCTGGTTCATTGCGCTGATCATTTGCCAGAACTTTT 536
QY 2748 ctctcctgggtctctggcccccccaaatgcctaaccacagggaccttggaattctactcat 2807
|||||
Db 537 CTCTCTCTGGGGTCTGGCCCC--AAATGCTAACCCAGGA-CTGGGAAATTTCTACTCAT 593
QY 2808 cccaaatgataattccaaatgctgttaccacaggttaggtgttgaggaagtagaggg 2867
|||||
Db 594 GCCAAATGATAATTCAAATGCTGTTACC--AAGGTAGGGTGTGAGGAGGAGTAGAGG 651
QY 2868 tggggctcaggtctcaacgggtctccctaaccacccctctct 2910
|||||
Db 652 GGGGCTTCAGGGTCTCAACGG--TAGCTAACCCACCTCTTCT 692

RESULT 11
BG864609
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM

house mouse.
Mus musculus
BG864609
BG864609.1 GI:14215147
EST.
house mouse.

REFERENCE
NIH-MGC http://mgc.nci.nih.gov/.
NATIONAL INSTITUTES OF HEALTH, MAMMALIAN GENE COLLECTION (MGC)
UNPUBLISHED (1999)
CONTACT: Robert Strausberg, Ph.D.
Email: cgabbs-remail.nih.gov
Tissue Procurement: Lothar Hennighausen Ph.D., Priscilla Furth
Ph.D.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAM10834 row: i column: 18
High quality sequence stop: 738.
Location/Qualifiers
1..872
/organism="Mus musculus"
/db_xref="taxon:10090"
/clone="IMAGE:4919513"
/clone_lib="NIH_CGAP_Mam4"
/tissue_type="tumor, gross tissue"
/lab_host="DH10B"
/notes="Organ: mammary; Vector: pCMV-SPORT6; Site:1: NotI;
Site:2: SalI; Cloned unidirectionally. Primer: Oligo dt.
Average insert 2.5 kb. Library constructed by Life
Technologies, catalog # 12018-016. Investigators providing
samples: Lothar Hennighausen/Priscilla Furth, NIH
Reference for transgenic model: Li et al., Cell Growth and
```

for average insert size 1.8kb. Library constructed by
Ling Hong in the laboratory of Gerald M. Rubin (University
of California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies)."

```
BASE COUNT      227 a   273 c   341 g   194 t
ORIGIN
      1  for average insert size 1.8kb. Library constructed by
      2  Ling Hong in the laboratory of Gerald M. Rubin (University
      3  of California, Berkeley) using ZAP-cDNA synthesis kit
      4  (Stratagene) and Superscript II RT (Life Technologies)."
```

```
Query Match      15.8%; Score 538.2; DB 10; Length 1035;
Best Local Similarity 93.1%; Pred. No. 9.4e-45;
Matches 632; Conservative 0; Mismatches 33; Indels 14; Gaps 6;

QY 7 cagctgcacgcgtggctccgggtgacagccgcgcctcgccaggatctgagtgtg 66
   |||||
Db 2 CAGCCTGACGCGTGGCTCCGGTGCACAGCCGCGCCTCGCCAGGATCTGAGTGATG 61

QY 67 agcgtgtcccaactgagtgccccacagcagcagcagtggttgagcatggctgagaagctg 126
   |||||
Db 62 AGACGTGTCCCCACTGAGTGGCCCCACAGCAGCAGAGTGTGTGAGCATGGGCTGAGAAAGCTG 121

QY 127 gaccggcaccacaaaggctggcagaaatggcgctggctggtctcctagcagctggcgccg 186
   |||||
Db 122 GACCGGCACCAAAAGGCTGSCAGAAATGGCGCCTGGCTGATTCCTAGGCAGTGGCGGC 181

QY 187 agcaaggagagggcgccagctctctggagcagagccgagacagcagctctctggagtgc 246
   |||||
Db 182 AGCAAGGAGGAGAGGGCGCGCAGCTTCTGGAGCAGAGCCGAGCAGAGCAGTCTGGAGTGC 241

QY 247 ctgaacggccctgagcctaccgctggccctggccactatggtccagagcgtggagtgc 306
   |||||
Db 242 CTGAACGGCCCTGAGCCCTACCCGCTGGCCCACTATGTCAGAGGCTGTGGGTGAG 301

QY 307 ccgcctgctggcgcacgggaaagccagctcttctggtgtaacctgtcaacctttggcct 366
   |||||
Db 302 CCGCCTGCTCGGCACCGGAAAGCCAGCTTCTGCTGGTCAACCTGCTAACCTTTGGCCT 361

QY 367 gagggtgtgtggcgaggaatacctctatgtgcgcctctctgctctggaagctgggggt 426
   |||||
Db 362 GGAGGTGTGTTTGGCGCGAGGCATCACCCTATGTGGCGCCTCTGCTGCTGGAAGTGGGGT 421

QY 427 agaggagaaattcatgaccatgctgctgggcatggtccagtgctgggctgctctgtgt 486
   |||||
Db 422 AGAGGAGAAATTCTATGACCATGCTGTGGCATGTGTCAGTGTGCTGGCTGTGCTGTGT 481

QY 487 ccgcgc-tcctaggtcca-gccagtgaccactggcgtggagcgtatggccgcgcgcgcgc 544
   |||||
Db 482 CCGGCATCTTAGGCTCACGCCAGTGCACCTATGTCGCTGGAGCGCTATGGCCGCCCGCGGCC 541

QY 545 ttcatctgggactgctctgggcatcctgctga-----gcctcttctcatcccaagg 598
   |||||
Db 542 TTCTCTGGAGCACTGTCTTGGAGGCATCTCTGACTGTGAGCATCTCTTCTCATCCCAAGG 601

QY 599 gccggctggctagca----gggctgctgtgcc-ggacccagggccctggagctggcac 653
   |||||
Db 602 GCCGGCTGGCTAGACAAGGAGCTGTGTGCCAGGATACCAGGACCTGGAGCTGG-AC 660

QY 654 tgcctatcctggcgtggtg 672
   |||||
Db 661 TGCTCATCATGGGCAGTGG 679
```

```
RESULT      9
BG469586
LOCUS      BG469586
DEFINITION 602533622F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:4661500 5',
           mRNA sequence.
ACCESSION  BG469586
VERSION    BG469586.1 GI:13401861
KEYWORDS   EST.
SOURCE     human.
ORGANISM   Homo sapiens
           Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
           Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
```

REFERENCE 1 (bases 1 to 589)
AUTHORS NIH-MGC <http://imgc.nci.nih.gov/>.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabbs@mail.nih.gov
Tissue Procurement: ATCC
cDNA Library Preparation: Ling Hong/Rubin Laboratory
DNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: NIH Intramural Sequencing Center
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
Plate: LLC1460 row: k column: 05
High quality sequence stop: 587.

FEATURES
source

1..589
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:4661500"
/clone_lib="NIH_MGC_15"
/tissue_type="adenocarcinoma cell line"
/lab_host="DH10B (phage-resistant)"
/note="Organ: colon; Vector: pOH7; Site_1: XhoI; Site_2:
EcoRI; cDNA made by oligo-dT priming. Directionally
cloned into EcoRI/XhoI sites using the following 5'
adapter: GGCACGAG(G). Size-selected >500bp for average
insert size 1.8kb. Library constructed by Ling Hong in
the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies)"

BASE COUNT 135 a 153 c 133 g 168 t
ORIGIN

Query Match 15.7%; Score 534.8; DB 10; Length 589;
Best Local Similarity 98.8%; Pred. No. 2.5e-44;
Matches 581; Conservative 0; Mismatches 2; Indels 5; Gaps 4;

```
QY 2366 ctgcagctctgcttaagttagctcttgcatgggaggtttcttagatgaacactctccat 2425
   |||||
Db 2 CTGCACCTCGTTTANTGTAGCTCTTGCATGGGAGTTCTTAGGATGAACACTCTCCAT 61

QY 2426 gggattggaacatag-actatttgggggaagagctgctgaggggcaacacacaaga 2483
   |||||
Db 62 GGGATTGGAACATATGAAAGTTATTTTAGGGGAAGAGTCTCTAGGGGGCAACACACAAGA 121

QY 2484 accagctccctcagccacagcactgtcttttctgctaccccccctctaccttt 2543
   |||||
Db 122 ACAGTCCCTCAGCCACAGCAGCTCTTTTGTGATCCACCCCTCTTACCTTTT 181

QY 2544 atcaggatgggctgtggtctctctgttgccatcacagagacagagcatttaatat 2603
   |||||
Db 182 ATCAGGATGGGCTCTTGTCTCTTGTGTCCTTGTGCCATCACAGACACAGGCTTAAATAT 241

QY 2604 ttaacttattttaaagaagtagaaggaatccaatgctagcttttctgttgggtg 2663
   |||||
Db 242 TTAACCTTATTTTAAACAAAGTAGAAGGAATCCATTGCTAGCTTTCTGTGTGGTGT 301

QY 2664 ctaatttgggtgaggtggggatcccccaaatcaggctccctgagatagctggtcat 2723
   |||||
Db 302 CTAATATTTGGGTAGGGTGGGGATCCCAACAATCAGGTCCCTCAGATAGTGTGTCAT 361

QY 2724 tgggtgatcattgccagaaattcttctctctggggtctggtggcccccaaatcctaacc 2783
   |||||
Db 362 TGGGTGATCATTCGCCAGAATCTTCTCTCTGGGGTCTGGCCGCCCAAAATGCCTAACC 421

QY 2784 caggacctggaaattctactcatcccaaatgataattcccaaatgctgttaccaaggtt 2843
   |||||
Db 422 CAGGACCTTGGAAATCTACTCATCCCAATGATAATTCCAATGCTGTGTACCAAGGT 481

QY 2844 aggtgtgtgaa-ggaaggttagaggtggggtctcaggtctcaggtctccctccct-aaccac 2901
   |||||
```


[illegible]

QY	1323	agcgattcggcaactcgagcagctctatttggccagtggtggcagctttccctctggtgctacccg	1382
Db	309	AGAAgTTCGGCACACCGGTTCAGTCTATCTTGCCCAAGTGTGATGACCTTTCCCTGTGGCTGCCG	368
QY	1383	gtgccacatgcctgtcccacagtggtgcccgtggtgacagcttcagccgcctcacccgggt	1442
Db	369	CTGCCACCTGCGCTTCCACAGCGGTGGTGTAGTGACAGCCTCAGCTGCCCTCACCGGGT	428
QY	1443	tcacctctcagccctgcagatcctctgcctacacactggcctccctctaccacgggaga	1502
Db	429	TCACCTTCCTGGCTTTCAGATCCTGCCTTACACGCTCGCTCCCTTCACACGCTGAGA	488
QY	1503	agcaggtgttcctgcccacaaataccgagggacactgaggtgctgacgagtgaggacagcc	1562
Db	489	AGCAGGTGTTCCTGCCCCAAATACGAGGGACGCTGGAGTAGCAGCGGTGAGGACAGCC	548
QY	1563	tgatgaccagcttcctgcccagggccctaaagctgagagctccctccctaaatggacacgtg	1622
Db	549	AGACACCAGCTTCCTGGCCAGGCGCTTAAGCCAGGAGCTCTCTTCCCAATGGACAGTGG	608
QY	1623	gtgtggaggcagtggtcctgctccccacctccaccgcgcgtctctcggggcctctgctgtg	1682
Db	609	GCTCTGGCAACCAACGCGATCCT--GGCCCTCCACTGCACCTCTGTGGGCGCTCTGTCTGCG	666
QY	1683	atgtctccgtacgtgt-gtgtgtggtgagccacacgagccaggtggtgtcgggcccgg	1741
Db	667	ATGTTTCCATGCGAGTGGGTGTGGGTGAGCCACCTTGGGGCCCGGTGTGTCGGGCGCG	726
QY	1742	gcatctgctgcagctcgcatcctcgtgatagtccttc	1780
Db	727	GGCATTTGCTCG-CTGGCCATTCCTGGCCGGTGCCTTC	764
RESULT	8		
LOCUS	BG828841	602752813f1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4905674 5',	EST 22-MAY-2001
DEFINITION		mRNA sequence.	
ACCESSION		BG828841	
VERSION		BG828841.1	GI:14176428
KEYWORDS		EST.	
SOURCE		human.	
ORGANISM		Homo sapiens	
REFERENCE		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	
AUTHORS		1 (bases 1 to 1035)	
JOURNAL		NIH-MGC http://imgc.ncbi.nih.gov/ .	
COMMENT		National Institutes of Health, Mammalian Gene Collection (MGC) Unpublished (1999)	
		Contact: Robert Strausberg, Ph.D.	
		Email: cgabbs-remail.nih.gov	
		Tissue Procurement: ATCC	
		cDNA Library Preparation: Ling Hong/Rubin Laboratory	
		cDNA Library Arrayed by: the I.M.A.G.E. Consortium (LLNL)	
		DNA Sequencing by: Incyte Genomics, Inc.	
		Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:	
		http://image.llnl.gov	
		Plate: LLC1807 row: 1 column: 03	
		High quality sequence start: 3	
		High quality sequence stop: 602.	

```

FEATURES
source
high quality sequence stop: 60%.
Location/Qualifiers
1. .l1035
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:4905674"
/clone_lib="NIH_MGC_17"
/tissue.type="rhadomyosarcoma"
/lab_host="PH10B (phage-resistant)"
/note="organ: muscle; Vector: pORB7; Site_1: EcoRI;
Site_2: XhoI; cDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the
following 5' adaptor: GGCACGAG(G). Size-selected >500bp

```


COMMENT Contact: Robert Strausberg, Ph.D.
Email: cga@rs-re@mail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM1196 row: a column: 08
High quality sequence stop: 675.
Location/Qualifiers
1. .850
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_lib="IMAGE:4331407"
/clone_lib="NIH_MGC_46"
/tissue_type="leiomyosarcoma cell line"
/note="Organ: uterus; Vector: pOTB7; Site_1: XhoI; Site_2:
EcoRI; cDNA made by oligo-dT priming. Directionally cloned
into EcoRI/XhoI sites using the following 5' adaptor:
GGCAGCAG(G). Size-selected >500bp for average insert size
1.8kb. Library constructed by Ling Hong in the laboratory
of Gerald M. Rubin (University of California, Berkeley)
using ZAP-cDNA synthesis kit (Stratagene) and Superscript
II RT (Life Technologies). Note: this is a NIH_MGC
Library."

BASE COUNT 128 a 266 c 261 g 195 t
ORIGIN

Query Match 17.4%; Score 594.6; DB 10; Length 850;
Best Local Similarity 92.9%; Pred. No. 2.8e-50;
Matches 733; Conservative 0; Mismatches 44; Indels 12; Gaps 10;

QY 1468 gccctacacactggcctccctctaccacgggagagacaggttctctgccaaatccg 1527
Db 2 GCCTTACACACTGGCTTCCCTCTACACCGGGAGACAGGTGTTCTGCCCAATACCG 61

QY 1528 agggacactggaggtgctgcagtgaggacagcctgatcaccagcttctccgcagcc 1587

Db 62 AGGGACACTGGAGGTGCTAGCAGTAGGAGACAGCCTGATGACAGCTTCTGCCAGGCC 121

QY 1588 taagcctggagctccctccctaatggacacgtgggtgctggaggagtggtcctgcc 1647

Db 122 TAAAGCCTGGAGCTCCCTTCCCTAATGACACAGTGGGTGCTGGAGGAGTGGCTGCC 181

QY 1648 acctcaccgcgctctgcgggcccctgcctgtgatgtctccgtacgtggtggtgg 1707

Db 182 ACTTCACCCGCGCTGTCGGGGCCCTCTGCCTGTGATGCTCTCCGTAGCTGTGGTGGG 241

QY 1708 tgagccaccagagcgaggtggttcccgggcgggcgatcgtcgtgacatcccatcct 1767

Db 242 TGAGCCACCGAGGCCA-GGTGGTTCGGGGCCGGGGCATCTGCTGGACCTCGCATCCT 300

QY 1768 gtagtgctctctgctgtccaggtggcccatccctctttatgggtccattgtcca 1827

Db 301 GGATAGTGCCTTCTGCTGTGCCAGGTGGCCCATCCCTGTTATGGGCTCCATGTCCA 360

QY 1828 gctcagcagctgtcactccctatatggtgtctgcgcagggcgtgggtcgtgcgcac 1887

Db 361 GCTCAGCAGTGTCTACTGCCCTATATGGTGTCTGCCGCGAGGCTGGGTGCTGGCCAT 420

QY 1888 ttacttctacacaggtagttattgacagagagcacttggcccaatactcagcgtagaa 1947

Db 421 TTACTTTGCTACACAGGTAGTATTGACAGAGAGGAGCTTGGCCAAATATCAGCGTAGAA 480

QY 1948 aacttccagacattgggggtggaggcctccctcactgggtccagctcccctcctgt 2007

Db 481 AACTTCAGACACA-TGGGGGTGGAGGGGCTGCCCTACTTGGGTGCCAGCTCCTCTCTGT 539

QY 2008 tagcccatggggctgcggggctggcccgagtttctgtgtgctgccaaagtattgtggct 2067

Db 540 TAGCCCCATGGGCTG-CGGGCTGGCCGC--AGTTCTGTGCTGCCAAAGTAATGTGGCT 596

QY 2068 ctctgtc--gccacctgtctgtcgtcagtgctagc-tgcacagct-gggggctggggc 2123

Db 597 CTCTGTGCCACCCCTGGTGTCTGCTGAGTGGCTGACAGCTGGGGGCTGGGGC 656

QY 2124 gtccct-ctctctctctccacagctctctagggct-gcctgactggagggcctccaaagg 2181

Db 657 GTCCCTCTCTCTCTCCCCAGTTCTTAGGGCTCGCCTGACTGGAGGCTTCCAGGGGT 716

QY 2182 ttccagctcgtac-ttatacagggagggcagaagggtccatcacctcgtgaatcgggac 2240

Db 717 CTCAGCTGGGACTTTATACAGGCAGGCCAGAAAGGTGCTGGCTGATGGGGGGCCTC 776

QY 2241 tctgcaggt 2249

Db 777 TCGGTGGT 785

RESULT 5
BG469520
LOCUS 60253283F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:4660496 5',
DEFINITION mRNA sequence.
ACCESSION BG469520
VERSION BG469520.1 GI:13401795
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 894)
AUTHORS NIH-MGC http://mgc.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cga@rs-re@mail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: NIH Intramural Sequencing Center
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM1458 row: a column: 09
High quality sequence stop: 671.
Location/Qualifiers
1. .894
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_lib="IMAGE:4660496"
/clone_lib="NIH_MGC_15"
/tissue_type="adenocarcinoma cell line"
/note="Organ: colon; Vector: pOTB7; Site_1: XhoI; Site_2:
EcoRI; cDNA made by oligo-dT priming. Directionally
cloned into EcoRI/XhoI sites using the following 5'
adaptor: GGCAGCAG(G). Size-selected >500bp for average
insert size 1.8kb. Library constructed by Ling Hong in
the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies)."

BASE COUNT 173 a 272 c 264 g 185 t
ORIGIN

Query Match 17.4%; Score 593; DB 10; Length 894;
Best Local Similarity 97.7%; Pred. No. 3.9e-50;
Matches 644; Conservative 0; Mismatches 10; Indels 5; Gaps 4;

QY 1450 ctacgacctgcagatctcctacacactggcctcctctctacacacgggagagcaggt 1509
|||||

QY 1858 gtctgcgcagggcctgggtctgtccatttacttctgtacacaggtatgtttgacaa 1917
 |||||
 Db 301 GTCTGCCGACAGGCTGGTCTGGTCCCATTTTACTTTGTCTACACAGGTAGTATTGACAA 360
 QY 1918 gacgacttgccaaatactacagctagataaaattccagacattgggtggagggcctg 1977
 |||||
 Db 361 GAGCGACTTGGCCAAATACAGCGTAGAAACTTCCAGCACATTTGGGTGGAGGCGCTG 420
 QY 1978 c-ctcactgggtccagctcccgctccctgttagcccaatgggtgctccgagctgccc 2036
 |||||
 Db 421 CACTCTAGGTGCCAGCTGCCCGATCTCTTGTAGCCCATGCGGCTGCGGCGTGGCCGC 480
 QY 2037 cagttctgtgtgtccaaagtaagtgg-ctctctgtgtgcaacctgtgtgtctgaggt 2095
 |||||
 Db 481 CAGTTCTGTCTGCTGCAAGTAATGTGGCTCTCTGCTGCCACCTGTGTCTGCTGAGGT 540
 QY 2096 gctagctgcacagctgggggtggggtccctctctctctctctctctctctctctctct 2155
 |||||
 Db 541 GCCTAGCTGCACAGCTGGGGGCTGGGGGCTCCCTCTCTCTCTCTCTCTCTCTCTCTCT 600
 QY 2156 gctgactgagggcttcaaggggtttcagctctgagcttatacaggagggcagaagg 2215
 |||||
 Db 601 GCCTGACTGGAGGCTTCCAAAGGGGTATCAGTCTGGACTTATACA-GGAGGGCCAGAAG 659
 QY 2216 gctccatgactggaatgctgggactctgc-aggtgattaccaggtctcaggtttaaca 2274
 |||||
 Db 660 GCTCCATGCACTGGATGCGGGGACTCTGCAAGGTGGATTACCCAGGCTCAGGGTTAACA 719
 QY 2275 gcta--gctcctagcttgagacacacctagagaagggttttgggag 2319
 |||||
 Db 720 GCTAAGCCCTCCTAGGTTGAGACACACTAGGAGACGGGTGACGGGAG 766

RESULT 3

BE867241 718 bp mRNA linear EST 20-OCT-2000
 LOCUS 601442309F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3846411 5',
 mRNA sequence.
 DEFINITION BE867241
 BE867241.1 GI:10316017
 ACCESSION
 VERSION
 KEYWORDS
 EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 718)
 AUTHORS NIH-MGC <http://mgc.nci.nih.gov/>.
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-remail.nih.gov
 Tissue Procurement: ATCC
 CDNA Library Preparation: Life Technologies, Inc.
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
 Plate: LLAM9559 row: a column: 04
 High quality sequence stop: 693.
 Location/Qualifiers
 1..718
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="IMAGE:3846411"
 /clone_lib="NIH_MGC_65"
 /tissue_type="adenocarcinoma"
 /lab_host="DH10B (phage-resistant)"
 /note="Organ: colon; Vector: pCMV-SF0RT6; Site_1: NotI;
 Site_2: SalI; Cloned unidirectionally. Primer: Oligo dt.
 Average insert size 1.8 kb. Library constructed by Life
 Technologies."

FEATURES

source

BASE COUNT 112 a 227 c 210 g 168 t 1 others
 ORIGIN
 Query Match 19.4%; Score 660.2; DB 10; Length 718;
 Best Local Similarity 97.7%; Pred. No. 1e-56;
 Matches 690; Conservative 0; Mismatches 14; Indels 2; Gaps 2;
 QY 1300 tctgggtcattgacccgctggtgcagcattccgcaactcagcagctctatttggccagtgt 1359
 Db 1 TCTGGTCATGACCGGCTGGTGCAGCGATTGGCACTCGAGCAGTCTATTGGCCAGTGT 60
 QY 1360 ggcagcttccctctggtgtggtgcgggtgccacatgcctgtcccaagctgtggtgagac 1419
 Db 61 GGCAGAGTTTCCCTGTGGCTGCCGTGCCACATGCTGTGCCACAGTGTGGCCGTGGTGAC 120
 QY 1420 agcttcagcgcgcctcacccgggttcaaccttctcagcctctgcagatcctgccttaacact 1479
 Db 121 AGCTTCAGCGCGGCTCACCGGGTTACCTTCTCAGCGCTGCAGATCCTGCCCTTACACAT 180
 QY 1480 ggcctccctctaccaccgggagaaagcaggtgttcctgcccataaccaggaggaactgg 1539
 Db 181 GGCTCCCTCTTACCACCGGAGAGCAGGTGTCTGCCCAATATCCGAGGGGACACTGG 240
 QY 1540 aggtgctagcagtgagagacagcctgatgaccagcttccctgcccagggccctaaagcctggagc 1599
 Db 241 AGGTGCTAGCAGTGAGGACAGCCTGATGACACAGCTTCCCTGCCAGGCCCTAAAGCCTGGAGC 300
 QY 1600 tcccttccctaataagacacagtggtggtgctgagggcagtgccctgctcccaacctccaccgc 1659
 Db 301 TCCCTTCCCTAATGGACAGCTGGGTGCTGGAGGCACTGGGCTGCTCCCACTCCACCCGC 360
 QY 1660 gctctcgggggctctgctgtgatctccctacgtgtggtggtggtgagccaccga 1719
 Db 361 GCTCTCGCGGGGCTCTGCCCTGTGATGCTCCGTACGTGTGGTGTGGTGAGCCACCGA 420
 QY 1720 ggcagggtggttcctggggcggggcctgctgacctgcacctgcacctggtatgacctt 1779
 Db 421 GGCAGGGTGGTTCCGGCGCGGGCATCTGCCCTGGACCTCGCCATCCTGGATAGTGCCTT 480
 QY 1780 cctgtgtccagagtggtggtggtggtggtggtggtggtggtggtggtggtggtggtggt 1839
 Db 481 CTTGCTGCTCCAGGTGGCCCCCATCCCTGTTATGGGCTCCATGTGCTGCTGCTGCTGCTGCT 540
 QY 1840 -tgtcactgcctatatgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 1897
 Db 541 TTGTCACTNGCTATATATGTTGTTCTTGGCAGGCTGGGTCTGCTGCTGCTGCTGCTGCTGCT 600
 QY 1898 acacaggtatgtattgacaaagcagctgtggtggtggtggtggtggtggtggtggtggtggt 1957
 Db 601 ACACAGGTAGTATTTGACAAAGAGCGACTTGGCCAAATACTACGCTAGAAAACCTTCCAGC 660
 QY 1958 acattgggtgagggcctgctcactggtggtggtggtggtggtggtggtggtggtggtggt 2003
 Db 661 ACATTGGGTGGAGGGCTGCTCACTGGGGTCCCAAGTTCCCGTTC 706
 RESULT 4
 BE972601
 LOCUS 602243025F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4331407 5',
 mRNA sequence.
 DEFINITION BE972601
 BE972601.1 GI:12339816
 ACCESSION
 VERSION
 KEYWORDS
 EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 850)
 AUTHORS NIH-MGC <http://mgc.nci.nih.gov/>.
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)

362	QY	ggcctggagggtgttcttggccggagagcatcaacctatgtccgcctctgtgtgtggaagtgc	421	QY	
1	Db	GGCCTGGAGGTGTGTTTGGCCGAGAGCATCACTATATGTGCCGCTCTGCTGTGGAAGTG	422	QY	
61	Db	GGGTAGAGAGAAAGTTCATGACCATGTGCTGGGCATTGGTCCAGTGTGGCCTGGTG	423	QY	
482	QY	tgtgtcccgctctatagctcagccagtgaccactggcgtggagcgtctatggccgcgcgcgg	541	QY	
121	Db	TGTGTCCCGCTCTAGSCTCAGCCATGACCACTGSCGTGGAGCGTATGSCCGCCGCG	180	Db	
542	QY	cccttcaatctgggcaatgtccttgggcatctgtgagcctctttctcaatcccaagggcc	601	QY	
181	Db	CCCTTCATCTGGACATGTCCTTGGGCATCTGCTGAGCCTCTTCTCATCCCAAGGCC	240	Db	
602	QY	ggctggctagcaggcctgtgtgcccgggataccaggccctggagctggagctgctcatc	661	QY	
241	Db	GGCTGGCTAGCAGGGCTGTGTGCCGGATCCAGGCCCTTGAGCTGGCATGTCTCATC	300	Db	
662	QY	ctgggctggggctgtgacttctgtggccagggtgtgttcactcaactgagagccctg	721	QY	
301	Db	CTGGCGTGGGGTGTGGACTTCTGTGCCAGGTGTGCTTCACTCCATGTGAGGCCCTG	360	Db	
722	QY	ctctctgaactcttcgggagaccaggacaactgtgccagggaactctgtctatgcttc	781	QY	
361	Db	CTCTCTGACCTCTPTCCGGACCCGGACCACTGTGCCAGGCCCTACTCTCTATGCCCTC	420	Db	
782	QY	atgatcagttctgggggtgcctgggctacctctctgcctgccattgaactgggacaccagt	841	QY	
421	Db	ATGATCAGTCTTGGGGGCTGCCTGGGCTACCTCCTGCCTGCCATTGACTGGGACACCA	480	Db	
842	QY	gacctggccccctaacctgggacccaggaggagtgcctcttggcctgtcacacctcatc	901	QY	
481	Db	GCCTTGSCCCCTTACTTGGGACCCAGGAGAGTGCCTCTTTGGCTGTCTACCTCATC	540	Db	
902	QY	ttcctcaactggtagcaccaactgtctgtgtgctgagaggagcagctgggccccacc	961	QY	
541	Db	TTCTCTACTCTGGTAGCACCCACACTGTCTGTGTGGCTGAGGAGGACGCGCTGGGCCCC	600	Db	
962	QY	gagccagcagaaggctgtctggccccctcttctgcgccccactgtgtccatgcccgggcc	1021	QY	
601	Db	GAGCCAGCAGAAAGGCTGTCCG--CCCTCTTGTGCCCCACTGTCTCATGTCCGGGCC	659	Db	
1022	QY	cgttggtcttcggaaa--cctgggcgcctgtcttcccgcgtgcaccagtgtctgcc	1071	QY	
660	Db	CGCTTGGCTTTCCGGAAACTGGGGGCGCCCTGCTTCCCGCGTGCACCAAGCTGTCTGCC	719	Db	
1080	QY	geatgccccgcacacctgcgcgggctcttgtgtgctgagctgtgtgcagctgg--atggcact	1131	QY	
720	Db	GGCATGCCCGGAACCTTGCCCGGCTTCTGTGTGGCTGAGCTGTGCAGTGGCATGCAACT	779	Db	
1138	QY	catgaacttcaactgtgttttaacagg--attctgtggcgaggggctgt-accagggcgct	1191	QY	
780	Db	CATGACCTTCAGCCTTTCTACCCGGCATCTCGCTGGCGACGGGCTGTCTCCCAAGGGGT	839	Db	
1195	QY	gcccagagctgagccgggcacc-gagggccggagacactatgataaagcgttcggatgg	1251	QY	
840	Db	TGCCAGAGCTGAGCCGGGACCCGGAAAGCCCGAGAACCTTATGCTGAACGCGTCCGCAT-G	898	Db	
1254	QY	gcagcctggggctgttcctgcagatgc	1279	QY	

	Query Match	19.6%	Score 667.4;	DB 10;	Length 800;
	Best Local Similarity	97.0%;	Pred. No. 1.9e-57;		
	Matches 744;	Conservative 0;	Mismatches 16;	Indels 7;	Gaps 6;
Qy	1558	cagcctgatgaccagcttccgtccaggccctaagcctggagctccccttcctcaatgcaca	1617		
Db	2	CAGCCTGATACCAGCTTCCTGCCAGSCCCTAAGCCTGGAGCTCCCTTCCCTTAATGCACA	61		
Qy	1618	cgtagtgctggaggcagtgaggcctgtccccactccaacgcagcctctgcggggccctctgc	1677		
Db	62	CGTGGGTGCTGGAGGCAAGTGCGCTGCTCCCACCTCCACCCGCGCTCTGCGGGGCGCTCTGC	121		
Qy	1678	ctgtgatgtctccgtaacgttgtgtgtgggtgagtgccaccagggcagggtgtctccggg	1737		
Db	122	CTGTGATGTCTCCGTACCTGTGGTGGTGGTGAGCCCCACCGAGGCCA-GGTGGTTCCGGG	180		
Qy	1738	ccggggcatctgctggaacctgccattcctggatagtccttccctctctgtccccaggtggc	1797		
Db	181	CCGGGGCATCTGCTGTGAACCTCGCCATPCTGGATGAGTGCCCTCTCTGTGTCCCAGGTGGC	240		
Qy	1798	cccatccctgttatgggtcccatgtgccagctcagccagctgtcactgcctatatggt	1857		
Db	241	CCCATCCCTGTATTGGGCTCCATTGTCAGCTTCAGCCAGCTGTGACTGCCCTATATGTT	300		

GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: July 11, 2002, 22:07:28 ; Search time 2528.24 Seconds
(without alignments)
18204.212 Million cell updates/sec

Title: US-09-605-783a-110
Perfect score: 3410
Sequence: 1 gggaaaccagctgcacgcgc.....aaaaataaaaaaaaaa 3410

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 13736207 seqs, 6748477542 residues

Total number of hits satisfying chosen parameters: 27472414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- 1: em_estba:**
- 2: em_esthum:**
- 3: em_estin:**
- 4: em_estmu:**
- 5: em_estov:**
- 6: em_estpl:**
- 7: em_estro:**
- 8: em_htc:**
- 9: gb_estl:**
- 10: gb_est2:**
- 11: gb_htc:**
- 12: gb_gss:**
- 13: em_gss_hum:**
- 14: em_gss_inv:**
- 15: em_gss_pin:**
- 16: em_gss_vrt:**

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	749.6	22.0	946	10	BG469889 602533345
2	667.4	19.6	800	10	BG469487 602532993
3	660.2	19.4	718	10	BE867241 601442309
4	594.6	17.4	850	10	BF972601 602243025
5	593	17.4	894	10	BG469520 602532833
6	588	17.2	858	10	B1107873 602901816
7	543.4	15.9	1116	10	BG242597 602354010
8	538.2	15.8	1035	10	BG288841 60252813
9	534.8	15.7	589	10	BG469586 602533622
10	525	15.4	715	10	BG122427 602353324
11	508.6	14.9	872	10	BG864609 602798469
12	499.6	14.7	786	10	BG174399 602334219
13	463	13.6	901	10	B1650119 603296208
14	462.6	13.6	482	9	AF109299 603296208
15	459	13.5	969	10	BG173136 602335411
16	456.8	13.4	491	9	AA631143 602112437
17	456.2	13.4	929	10	BF785813 602112437

ALIGNMENTS

RESULT 1

BG469889 946 bp mRNA linear EST 21-MAR-2001
LOCUS 602533345F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:4661075 5',
DEFINITION mRNA sequence.

ACCESSION BG469889
VERSION BG469889.1 GI:13402164

KEYWORDS EST

SOURCE human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 946)

AUTHORS NIH-MGC <http://mgc.nci.nih.gov/>

TITLE National Institutes of Health, Mammalian Gene Collection (MGC)

JOURNAL Unpublished (1999)

COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov

Tissue Procurement: ATCC

CDNA Library Preparation: Ling Hong/Rubin Laboratory

CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

CDNA Sequencing by: NIH Intramural Sequencing Center

Clone Distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:

<http://image.llnl.gov>

Plate: LCCM1459 row: i column: 12

High quality sequence stop: 798.

Location/Qualifiers

1..946

source

/organism="Homo sapiens"

/db_xref="taxon:9606"

/clone="IMAGE:4661075"

/clone_lib="NIH_MGC_15"

/tissue_type="adenocarcinoma cell line"

/lab_host="DH10B (phage-resistant)"

/note="Organ: colon; Vector: pOTB7; Site:1: XhoI; Site_2:

EcoRI; CDNA made by oligo-dt priming. Directionally

cloned into EcoRI/XhoI sites using the following 5'

adaptor: GGCACGAG(G). Size-selected >500bp for average

insert size 1.8kb. Library constructed by Ling Hong in

;	PRIOR FILING DATE:	1998-04-22	
;	PRIOR APPLICATION NUMBER:	60/082804	
;	PRIOR FILING DATE:	1998-04-22	
;	PRIOR APPLICATION NUMBER:	60/082700	
;	PRIOR FILING DATE:	1998-04-22	
;	PRIOR APPLICATION NUMBER:	60/082797	
;	PRIOR FILING DATE:	1998-04-22	
;	PRIOR APPLICATION NUMBER:	60/082796	
;	PRIOR FILING DATE:	1998-04-23	
;	PRIOR APPLICATION NUMBER:	60/083336	
;	PRIOR FILING DATE:	1998-04-27	
;	PRIOR APPLICATION NUMBER:	60/083322	
;	PRIOR FILING DATE:	1998-04-28	
;	PRIOR APPLICATION NUMBER:	60/083392	
;	PRIOR FILING DATE:	1998-04-29	
;	PRIOR APPLICATION NUMBER:	60/083495	
;	PRIOR FILING DATE:	1998-04-29	
;	PRIOR APPLICATION NUMBER:	60/083496	
;	PRIOR FILING DATE:	1998-04-29	
;	PRIOR APPLICATION NUMBER:	60/083499	
;	PRIOR FILING DATE:	1998-04-29	
;	PRIOR APPLICATION NUMBER:	60/083545	
;	PRIOR FILING DATE:	1998-04-29	
;	PRIOR APPLICATION NUMBER:	60/083554	
;	PRIOR FILING DATE:	1998-04-29	
;	PRIOR APPLICATION NUMBER:	60/083558	
;	PRIOR FILING DATE:	1998-04-29	
;	PRIOR APPLICATION NUMBER:	60/083559	
;	PRIOR FILING DATE:	1998-04-29	
;	PRIOR APPLICATION NUMBER:	60/083500	
;	PRIOR FILING DATE:	1998-04-29	
;	PRIOR APPLICATION NUMBER:	60/083742	
;	PRIOR FILING DATE:	1998-04-30	
;	PRIOR APPLICATION NUMBER:	60/084366	
;	PRIOR FILING DATE:	1998-05-05	
;	PRIOR APPLICATION NUMBER:	60/084414	
;	PRIOR FILING DATE:	1998-05-06	
;	PRIOR APPLICATION NUMBER:	60/084441	
;	PRIOR FILING DATE:	1998-05-06	
;	PRIOR APPLICATION NUMBER:	60/084637	
;	PRIOR FILING DATE:	1998-05-07	
;	PRIOR APPLICATION NUMBER:	60/084639	
;	PRIOR FILING DATE:	1998-05-07	
;	PRIOR APPLICATION NUMBER:	60/084640	
;	PRIOR FILING DATE:	1998-05-07	
;	PRIOR APPLICATION NUMBER:	60/084598	
;	PRIOR FILING DATE:	1998-05-07	
;	PRIOR APPLICATION NUMBER:	60/084600	
;	PRIOR FILING DATE:	1998-05-07	
;	PRIOR APPLICATION NUMBER:	60/084627	
;	PRIOR FILING DATE:	1998-05-07	
;	PRIOR APPLICATION NUMBER:	60/084643	
;	PRIOR FILING DATE:	1998-05-07	
;	PRIOR APPLICATION NUMBER:	60/085339	
;	PRIOR FILING DATE:	1998-05-13	
;	PRIOR APPLICATION NUMBER:	60/085338	
;	PRIOR FILING DATE:	1998-05-13	
;	PRIOR APPLICATION NUMBER:	60/085323	
;	PRIOR FILING DATE:	1998-05-13	
;	PRIOR APPLICATION NUMBER:	60/085582	
;	PRIOR FILING DATE:	1998-05-15	
;	PRIOR APPLICATION NUMBER:	60/085700	
;	PRIOR FILING DATE:	1998-05-15	
;	PRIOR APPLICATION NUMBER:	60/085689	
;	PRIOR FILING DATE:	1998-05-15	
;	PRIOR APPLICATION NUMBER:	60/085579	
;	PRIOR FILING DATE:	1998-05-15	
;	PRIOR APPLICATION NUMBER:	60/085580	
;	PRIOR FILING DATE:	1998-05-15	
;	PRIOR APPLICATION NUMBER:	60/085573	
;	PRIOR FILING DATE:	1998-05-15	
;	PRIOR APPLICATION NUMBER:	60/085704	
;	PRIOR FILING DATE:	1998-05-15	


```
; TYPE: DNA
; ORGANISM: Zea mays
US-10-155-881-3173

Query Match      2.8%; Score 95; DB 6; Length 580;
Best Local Similarity 82.9%; Pred. No. 0.018;
Matches 107; Conservative 1; Mismatches 21; Indels 0; Gaps 0;

QY 3282 tataatgtttatgttgacaaaattaaaggctttctttatgttttaaaaaaa 3341
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 139 TAAAGTGTGGGTATAAAAAAAGGGGCTTTTCTTTTAAAAA 80
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 3342 aaaaaa 3401
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 79 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 20

QY 3402 aaaaaaa 3410
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 19 AAAAAACA 11

RESULT 10
US-10-144-132-27
; Sequence 27, Application US/10144132
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT244C1N
; CURRENT APPLICATION NUMBER: US/10/144,132
; CURRENT FILING DATE: 2002-05-14
; NUMBER OF SEQ ID NOS: 113
; Prior Application removed - See File Wrapper or Palm
; SEQ ID NO 27
; LENGTH: 974
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (973)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (974)
; OTHER INFORMATION: n equals a,t,g, or c
US-10-144-132-27

Query Match      2.8%; Score 94.8; DB 6; Length 974;
Best Local Similarity 68.6%; Pred. No. 0.018;
Matches 129; Conservative 1; Mismatches 58; Indels 0; Gaps 0;

QY 3223 aatgtctctattatttagcgggtgaattatttatacttaagtgcgaatcagagt 3282
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 784 acttcggatattgttcagtgactggaacttccatttattcagaatctgttc 843
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 3283 ataatgtttatgtgacaaaattaaaggctttctttatgttttaaaaaaa 3342
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 844 atgttaaaagccttgattaaagaggaagttttataatcttaaaaaaa 903
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 3343 aaaaaa 3402
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 904 aaaaaa 963

QY 3403 aaaaaaa 3410
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 964 aaaaaaa 971

RESULT 11
US-10-121-062-75
; Sequence 75, Application US/10121062
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C1
; CURRENT APPLICATION NUMBER: US/10/121,062
; CURRENT FILING DATE: 2002-04-12
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 75
; LENGTH: 4640
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-173-689-75

Query Match      2.8%; Score 94.6; DB 6; Length 4640;
Best Local Similarity 90.1%; Pred. No. 0.016;
Matches 100; Conservative 1; Mismatches 10; Indels 0; Gaps 0;

QY 3300 aaattaaaggctttctttatgttttaaaaaaa 3359
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 4506 aaataaaggcattgtttcattgttttaaaaaaa 4565
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 3360 aaaaaa 3410
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 4566 aaaaaa 4616

RESULT 12
US-10-173-689-75
; Sequence 75, Application US/10173689
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C10
; CURRENT APPLICATION NUMBER: US/10/173,689
; CURRENT FILING DATE: 2002-06-17
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 75
; LENGTH: 4640
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-173-689-75

Query Match      2.8%; Score 94.6; DB 6; Length 4640;
Best Local Similarity 90.1%; Pred. No. 0.016;
Matches 100; Conservative 1; Mismatches 10; Indels 0; Gaps 0;

QY 3300 aaattaaaggctttctttatgttttaaaaaaa 3359
```


QY 2 ggaacagactgcacgcgtgctccggtgacagcgcgcgcctcggccagcagatctgag 61
Db 50 ggaacagactgcacgcgtgctccggtgacagcgcgcgcctcggccagcagatctgag 109
QY 62 tgatgagcgtgccccactgagtgccccacagcagcaggtgttagcagatggcgtgaga 121
Db 110 tgatgagcgtgccccactgagtgccccacagcagcaggtgttagcagatggcgtgaga 169
QY 122 agctgacccggcaccacaaaggctggcagaaatggcgctggtgctgattccttagcagttg 181
Db 170 agctgacccggcaccacaaaggctggcagaaatggcgctggtgctgattccttagcagttg 229
QY 182 ggcgcagcagagagagagccgcga 206
Db 230 ggcgcagcagagagagagccgcga 254

RESULT 5
US-09-540-210B-35161
; Sequence 35161, Application US/09540210B
; GENERAL INFORMATION:
; APPLICANT: Seilhamer, Jeffrey J.
; APPLICANT: Deleageane, Angelo M.
; APPLICANT: Stuve, Susan G.
; APPLICANT: Stuve, Laura L.
; APPLICANT: Naughton, Rebecca E.
; TITLE OF INVENTION: POLYNUCLEOTIDES OF URINARY TRACT TISSUE
; FILE REFERENCE: PD-1037 CIP

; CURRENT APPLICATION NUMBER: US/09/540,210B

; CURRENT FILING DATE: 2002-04-03

; PRIOR APPLICATION NUMBER: 08/972,899

; PRIOR FILING DATE: November 18, 1997

; PRIOR APPLICATION NUMBER: 08/395,244

; PRIOR FILING DATE: February 27, 1995

; PRIOR APPLICATION NUMBER: 08/722,922

; PRIOR FILING DATE: September 27, 1996

; PRIOR APPLICATION NUMBER: 60/005,526

; PRIOR FILING DATE: September 29, 1995

; PRIOR APPLICATION NUMBER: 08/824,029

; PRIOR FILING DATE: March 25, 1997

; PRIOR APPLICATION NUMBER: 60/014,010

; PRIOR FILING DATE: March 25, 1996

; PRIOR APPLICATION NUMBER: 08/826,847

; PRIOR FILING DATE: April 10, 1997

; PRIOR APPLICATION NUMBER: 60/015,533

; PRIOR FILING DATE: April 10, 1996

; PRIOR APPLICATION NUMBER: 08/903,555

; PRIOR FILING DATE: July 31, 1997

; PRIOR APPLICATION NUMBER: 60/023,308

; PRIOR FILING DATE: July 31, 1996

; PRIOR APPLICATION NUMBER: 08/862,178

; PRIOR FILING DATE: May 22, 1997

; PRIOR APPLICATION NUMBER: 60/018,217

; PRIOR FILING DATE: May 23, 1996

; PRIOR APPLICATION NUMBER: 08/881,589

; PRIOR FILING DATE: June 24, 1997

; PRIOR APPLICATION NUMBER: 60/021,275

; PRIOR FILING DATE: June 25, 1996

; PRIOR APPLICATION NUMBER: 08/903,802

; PRIOR FILING DATE: July 31, 1997

; PRIOR APPLICATION NUMBER: 60/023,308

; PRIOR FILING DATE: July 31, 1996

; PRIOR APPLICATION NUMBER: 08/905,881

; PRIOR FILING DATE: August 1, 1997

; PRIOR APPLICATION NUMBER: 60/025,204

; PRIOR FILING DATE: August 1, 1996

; PRIOR APPLICATION NUMBER: 08/903,471

; PRIOR FILING DATE: July 30, 1997

; PRIOR APPLICATION NUMBER: 60/025,478

; PRIOR FILING DATE: July 31, 1996

; PRIOR APPLICATION NUMBER: 08/903,556

; PRIOR FILING DATE: July 31, 1997

; PRIOR APPLICATION NUMBER: 60/025,217
; PRIOR FILING DATE: August 22, 1996
; PRIOR APPLICATION NUMBER: 08/937,142
; PRIOR FILING DATE: September 23, 1997
; PRIOR APPLICATION NUMBER: 60/026,598
; PRIOR FILING DATE: September 24, 1996
; PRIOR APPLICATION NUMBER: 08/960,746
; PRIOR FILING DATE: October 29, 1997
; PRIOR APPLICATION NUMBER: 60/030,144
; PRIOR FILING DATE: October 30, 1996
; PRIOR APPLICATION NUMBER: 08/826,847
; PRIOR FILING DATE: April 10, 1997
; PRIOR APPLICATION NUMBER: 60/015,533
; PRIOR FILING DATE: April 10, 1996
; PRIOR APPLICATION NUMBER: 08/755,524
; PRIOR FILING DATE: November 22, 1996
; PRIOR APPLICATION NUMBER: 60/007,495
; PRIOR FILING DATE: November 22, 1995
; PRIOR APPLICATION NUMBER: 09/021,031
; PRIOR FILING DATE: February 10, 1998
; PRIOR APPLICATION NUMBER: 60/039,325
; PRIOR FILING DATE: February 13, 1997
; PRIOR APPLICATION NUMBER: 09/035,172
; PRIOR FILING DATE: March 4, 1998
; PRIOR APPLICATION NUMBER: 60/040,431
; PRIOR FILING DATE: March 5, 1997
; PRIOR APPLICATION NUMBER: 09/041,894
; PRIOR FILING DATE: March 12, 1998
; PRIOR APPLICATION NUMBER: 60/040,199
; PRIOR FILING DATE: March 14, 1997
; PRIOR APPLICATION NUMBER: 09/050,817
; PRIOR FILING DATE: March 30, 1998
; PRIOR APPLICATION NUMBER: 60/043,792
; PRIOR FILING DATE: April 11, 1997
; PRIOR APPLICATION NUMBER: 09/074,999
; PRIOR FILING DATE: May 8, 1998
; PRIOR APPLICATION NUMBER: 60/048,431
; PRIOR FILING DATE: May 29, 1997
; PRIOR APPLICATION NUMBER: 09/107,592
; PRIOR FILING DATE: June 30, 1998
; PRIOR APPLICATION NUMBER: 60/052,751
; PRIOR FILING DATE: July 1, 1997
; PRIOR APPLICATION NUMBER: 09/094,079
; PRIOR FILING DATE: June 9, 1998
; PRIOR APPLICATION NUMBER: 60/049,975
; PRIOR FILING DATE: June 13, 1997
; NUMBER OF SEQ ID NOS: 35654
; SOFTWARE: PERL Program
; SEQ ID NO 35161
; LENGTH: 296
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No: rat00222667
; NAME/KEY: unsure
; LOCATION: 285
; OTHER INFORMATION: a, t, c, g, or other
US-09-540-210B-35161

Query Match 3.2%; Score 108; DB 5; Length 296;
Best Local Similarity 88.0%; Pred. No. 0.00076;
Matches 117; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 1505 cagggttctctcccaataccagggagcactggaggtgctagcagtgagacagcctg 1564
|||||
Db 155 cagggttctctcccaataccagggagcactggaggtgctagcagtgagacagcctg 214
|||||
QY 1565 atgaccagcttctccagggccctgaagcctggagctccctccctaatgacacgtgggt 1624
|||||
Db 215 acaaccagcttctgtaggccttaagccagagctccctccctcccaatggacacgtgggc 274
|||||

; OTHER INFORMATION: a, t, c, g, or other
US-09-540-210B-29055

Query Match 6.5%; Score 223; DB 5; Length 236;

Best Local Similarity 97.4%; Pred. No. 2.9e-16;

Matches 226; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 2435 acatagactattttaggggaagagctctgaggggcaacacacagaaccagggtcccc 2494

Db 5 atagaagatnatttaggggaagagctctgaggggcaacacacagaaccagggtcccc 64

QY 2495 tcagccacagacactgcttttttgcgtatccacccccctttacccttttaccaggatgtg 2554

Db 65 tcagccacagacactgcttttttgcgtatccacccccctttacccttttaccaggatgtg 124

QY 2555 gcctgtgtctctctgttgcacacacagacagacagcatttaataatttaactttt 2614

Db 125 gcctgtgtgtctctctgttgcacacacagacagacagcatttaataatttaactttt 184

QY 2615 attaacaagtagaagggaatccattgctagcttttctgtgtgtgtgtccta 2666

Db 185 attaacaagtagaagggaatccattgctagcttttctgtgtgtgtgtccta 236

RESULT 4

US-09-540-210B-6964

; Sequence 6964, Application US/09540210B

; GENERAL INFORMATION:

; APPLICANT: Seilhamer, Jeffrey J.

; APPLICANT: Deleane, Angelo M.

; APPLICANT: Stuart, Susan G.

; APPLICANT: Stuve, Laura L.

; APPLICANT: Mullahy, Sara J.

; APPLICANT: Naughton, Rebecca E.

; TITLE OF INVENTION: POLYNUCLEOTIDES OF URINARY TRACT TISSUE

; FILE REFERENCE: PD-1037 CIP

; CURRENT APPLICATION NUMBER: US/09540,210B

; CURRENT FILING DATE: 2002-04-03

; PRIOR APPLICATION NUMBER: 08/972,899

; PRIOR FILING DATE: November 18, 1997

; PRIOR APPLICATION NUMBER: 08/395,244

; PRIOR FILING DATE: February 27, 1995

; PRIOR APPLICATION NUMBER: 08/722,922

; PRIOR FILING DATE: September 27, 1996

; PRIOR APPLICATION NUMBER: 60/005,526

; PRIOR FILING DATE: September 29, 1995

; PRIOR APPLICATION NUMBER: 08/824,029

; PRIOR FILING DATE: March 25, 1997

; PRIOR APPLICATION NUMBER: 60/014,010

; PRIOR FILING DATE: March 25, 1996

; PRIOR APPLICATION NUMBER: 08/826,847

; PRIOR FILING DATE: April 10, 1997

; PRIOR APPLICATION NUMBER: 60/015,533

; PRIOR FILING DATE: April 10, 1996

; PRIOR APPLICATION NUMBER: 08/903,555

; PRIOR FILING DATE: July 31, 1997

; PRIOR APPLICATION NUMBER: 60/023,308

; PRIOR FILING DATE: July 31, 1996

; PRIOR APPLICATION NUMBER: 08/862,178

; PRIOR FILING DATE: May 22, 1997

; PRIOR APPLICATION NUMBER: 60/018,217

; PRIOR FILING DATE: May 23, 1996

; PRIOR APPLICATION NUMBER: 08/881,589

; PRIOR FILING DATE: June 24, 1997

; PRIOR APPLICATION NUMBER: 60/021,275

; PRIOR FILING DATE: June 25, 1996

; PRIOR APPLICATION NUMBER: 08/903,802

; PRIOR FILING DATE: July 31, 1997

; PRIOR APPLICATION NUMBER: 60/023,308

; PRIOR FILING DATE: July 31, 1996

; PRIOR APPLICATION NUMBER: 08/905,881

; PRIOR FILING DATE: August 1, 1997

; PRIOR APPLICATION NUMBER: 60/025,204
; PRIOR FILING DATE: August 1, 1996
; PRIOR APPLICATION NUMBER: 08/903,471
; PRIOR FILING DATE: July 30, 1997
; PRIOR APPLICATION NUMBER: 60/025,478
; PRIOR FILING DATE: July 31, 1996
; PRIOR APPLICATION NUMBER: 08/903,556
; PRIOR FILING DATE: July 31, 1997
; PRIOR APPLICATION NUMBER: 60/025,217
; PRIOR FILING DATE: August 22, 1996
; PRIOR APPLICATION NUMBER: 08/937,142
; PRIOR FILING DATE: September 23, 1997
; PRIOR APPLICATION NUMBER: 60/026,598
; PRIOR FILING DATE: September 24, 1996
; PRIOR APPLICATION NUMBER: 08/960,746
; PRIOR FILING DATE: October 29, 1997
; PRIOR APPLICATION NUMBER: 60/030,144
; PRIOR FILING DATE: October 30, 1996
; PRIOR APPLICATION NUMBER: 08/826,847
; PRIOR FILING DATE: April 10, 1997
; PRIOR APPLICATION NUMBER: 60/015,533
; PRIOR FILING DATE: April 10, 1996
; PRIOR APPLICATION NUMBER: 08/755,524
; PRIOR FILING DATE: November 22, 1996
; PRIOR APPLICATION NUMBER: 60/007,495
; PRIOR FILING DATE: November 22, 1995
; PRIOR APPLICATION NUMBER: 09/021,031
; PRIOR FILING DATE: February 10, 1998
; PRIOR APPLICATION NUMBER: 60/039,325
; PRIOR FILING DATE: February 13, 1997
; PRIOR APPLICATION NUMBER: 09/035,172
; PRIOR FILING DATE: March 4, 1998
; PRIOR APPLICATION NUMBER: 60/040,431
; PRIOR FILING DATE: March 5, 1997
; PRIOR APPLICATION NUMBER: 09/041,894
; PRIOR FILING DATE: March 12, 1998
; PRIOR APPLICATION NUMBER: 60/040,199
; PRIOR FILING DATE: March 14, 1997
; PRIOR APPLICATION NUMBER: 09/050,817
; PRIOR FILING DATE: March 30, 1998
; PRIOR APPLICATION NUMBER: 60/043,792
; PRIOR FILING DATE: April 11, 1997
; PRIOR APPLICATION NUMBER: 09/074,999
; PRIOR FILING DATE: May 8, 1998
; PRIOR APPLICATION NUMBER: 60/048,431
; PRIOR FILING DATE: May 29, 1997
; PRIOR APPLICATION NUMBER: 09/107,592
; PRIOR FILING DATE: June 30, 1998
; PRIOR APPLICATION NUMBER: 60/052,751
; PRIOR FILING DATE: July 1, 1997
; PRIOR APPLICATION NUMBER: 09/094,079
; PRIOR FILING DATE: June 9, 1998
; PRIOR APPLICATION NUMBER: 60/049,975
; PRIOR FILING DATE: June 13, 1997
; NUMBER OF SEQ ID NOS: 35654
; SOFTWARE: PERL Program
; SEQ ID NO 6964
; LENGTH: 254
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No: hu00213961
; NAME/KEY: unsure
; LOCATION: 63
; OTHER INFORMATION: a, t, c, g, or other
US-09-540-210B-6964

Query Match

Best Local Similarity 99.5%; Pred. No. 3.3e-14;

Matches 204; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

6.0%;

Score 204;

DB 5;

Length 254;

```

; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No: hu00165068
; NAME/KEY: unsure
; LOCATION: 203
; OTHER INFORMATION: a, t, c, g, or other
US-09-540-210B-19407

Query Match      8.1%; Score 275.6; DB 5; Length 283;
Best Local Similarity 98.2%; Pred. No. 5,9e-22;
Matches 278; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 2796 aattctactatccccaataatcccaatgctgttaccacaaggttaggtgttgag 2855
      |||||||
Db 1 aattctactatccccaataatcccaatgctgttaccacaaggttaggtgttgag 60
      |||||||

QY 2856 gaaggtagaggtggggttcaggctcaacggctccctccctaccacccctctctctgg 2915
      |||||||
Db 61 gaaggtagaggtggggttcaggctcaacggctccctccctaccacccctctctctgg 120
      |||||||

QY 2916 ccagcgtgttccccccacttccactccctctctctctctcttaggactgggctgatgaa 2975
      |||||||
Db 121 ccagcgtgttccccccacttccactccctctctctctcttaggactgggctgatgaa 180
      |||||||

QY 2976 ggaactgccccaaatttccctaccaccccaacttccctaccaccccaacttcccccacag 3035
      |||||||
Db 181 ggaactgccccaaattgagccctngcccaacttccctaccaccccaacttcccccacag 240
      |||||||

QY 3036 ccccaaacctgtttgagctactgcaggaccagaacacaa 3078
      |||||||
Db 241 ccccaaacctgtttgagctactgcaggaccagaacacaa 283
      |||||||

RESULT 3
US-09-540-210B-29055
; Sequence 29055, Application US/09540210B
; GENERAL INFORMATION:
; APPLICANT: Seilhamer, Jeffrey J.
; APPLICANT: Delegeane, Angelo M.
; APPLICANT: Stuart, Susan G.
; APPLICANT: Stuve, Laura L.
; APPLICANT: Mullahy, Sara J.
; APPLICANT: Naughton, Rebecca E.
; TITLE OF INVENTION: POLYNUCLEOTIDES OF URINARY TRACT TISSUE
; FILE REFERENCE: PD-1037 CIP
; CURRENT APPLICATION NUMBER: US/09/540,210B
; CURRENT FILING DATE: 2002-04-03
; PRIOR APPLICATION NUMBER: 08/972,899
; PRIOR FILING DATE: November 18, 1997
; PRIOR APPLICATION NUMBER: 08/395,244
; PRIOR FILING DATE: February 27, 1995
; PRIOR APPLICATION NUMBER: 08/722,922
; PRIOR FILING DATE: September 27, 1996
; PRIOR APPLICATION NUMBER: 60/005,526
; PRIOR FILING DATE: September 29, 1995
; PRIOR APPLICATION NUMBER: 08/824,029
; PRIOR FILING DATE: March 25, 1997
; PRIOR APPLICATION NUMBER: 60/014,010
; PRIOR FILING DATE: March 25, 1996
; PRIOR APPLICATION NUMBER: 08/826,847
; PRIOR FILING DATE: April 10, 1997
; PRIOR APPLICATION NUMBER: 60/015,533
; PRIOR FILING DATE: April 10, 1996
; PRIOR APPLICATION NUMBER: 08/862,178
; PRIOR FILING DATE: May 22, 1997
; PRIOR APPLICATION NUMBER: 60/018,217
; PRIOR FILING DATE: May 23, 1996
; PRIOR APPLICATION NUMBER: 08/881,589
; PRIOR FILING DATE: June 24, 1997
; PRIOR APPLICATION NUMBER: 60/021,275
; PRIOR FILING DATE: June 25, 1996
; PRIOR APPLICATION NUMBER: 08/903,802
; PRIOR FILING DATE: July 31, 1997
; PRIOR APPLICATION NUMBER: 60/023,308
; PRIOR FILING DATE: July 31, 1996
; PRIOR APPLICATION NUMBER: 08/905,881
; PRIOR FILING DATE: August 1, 1997
; PRIOR APPLICATION NUMBER: 60/025,204
; PRIOR FILING DATE: August 1, 1996
; PRIOR APPLICATION NUMBER: 08/903,471
; PRIOR FILING DATE: July 30, 1997
; PRIOR APPLICATION NUMBER: 60/025,478
; PRIOR FILING DATE: July 31, 1996
; PRIOR APPLICATION NUMBER: 08/903,556
; PRIOR FILING DATE: July 31, 1997
; PRIOR APPLICATION NUMBER: 60/025,217
; PRIOR FILING DATE: August 22, 1996
; PRIOR APPLICATION NUMBER: 08/937,142
; PRIOR FILING DATE: September 23, 1997
; PRIOR APPLICATION NUMBER: 60/026,598
; PRIOR FILING DATE: September 24, 1996
; PRIOR APPLICATION NUMBER: 08/960,746
; PRIOR FILING DATE: October 29, 1997
; PRIOR APPLICATION NUMBER: 60/030,144
; PRIOR FILING DATE: October 30, 1996
; PRIOR APPLICATION NUMBER: 08/826,847
; PRIOR FILING DATE: April 10, 1997
; PRIOR APPLICATION NUMBER: 60/015,533
; PRIOR FILING DATE: April 10, 1996
; PRIOR APPLICATION NUMBER: 08/755,524
; PRIOR FILING DATE: November 22, 1996
; PRIOR APPLICATION NUMBER: 60/007,495
; PRIOR FILING DATE: November 22, 1995
; PRIOR APPLICATION NUMBER: 09/021,031
; PRIOR FILING DATE: February 10, 1998
; PRIOR APPLICATION NUMBER: 60/039,325
; PRIOR FILING DATE: February 13, 1997
; PRIOR APPLICATION NUMBER: 09/035,172
; PRIOR FILING DATE: March 4, 1998
; PRIOR APPLICATION NUMBER: 60/040,431
; PRIOR FILING DATE: March 5, 1997
; PRIOR APPLICATION NUMBER: 09/041,894
; PRIOR FILING DATE: March 12, 1998
; PRIOR APPLICATION NUMBER: 60/040,199
; PRIOR FILING DATE: March 14, 1997
; PRIOR APPLICATION NUMBER: 09/050,817
; PRIOR FILING DATE: March 30, 1998
; PRIOR APPLICATION NUMBER: 60/043,792
; PRIOR FILING DATE: April 11, 1997
; PRIOR APPLICATION NUMBER: 09/074,999
; PRIOR FILING DATE: May 8, 1998
; PRIOR APPLICATION NUMBER: 60/048,431
; PRIOR FILING DATE: May 29, 1997
; PRIOR APPLICATION NUMBER: 09/107,592
; PRIOR FILING DATE: June 30, 1998
; PRIOR APPLICATION NUMBER: 60/052,751
; PRIOR FILING DATE: July 1, 1997
; PRIOR APPLICATION NUMBER: 09/094,079
; PRIOR FILING DATE: June 9, 1998
; PRIOR APPLICATION NUMBER: 60/049,975
; PRIOR FILING DATE: June 13, 1997
; NUMBER OF SEQ ID NOS: 35654
; SOFTWARE: PERL Program
; SEQ ID NO 29055
; LENGTH: 236
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No: hu00029498
; NAME/KEY: unsure
; LOCATION: 15

```

```

; OTHER INFORMATION: n = A,T,C or G
US-09-721-544-8323

Query Match      10.5%; Score 356.6; DB 5; Length 465;
Best Local Similarity 93.9%; Pred. No. 9.7e-31;
Matches 382; Conservative 0; Mismatches 24; Indels 1; Gaps 1;

Qy 2751 ctctgggtggtgcccccaaaatgcctaacccaggacgttgaaattctactatccc 2810
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 60 ctatagggaattgacctgagccgaagaattcgccaggggaaattctactatccc 119

Qy 2811 aaatgataattccaaatgctgttaccacagggttaggtgttgaaggaggtagagggtgg 2870
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 120 aaatgataattccaaatgctgttaccacagggttaggtgttgaaggaggtagagggtgg 179

Qy 2871 ggcttcaggtctcaacgctctccctaacaccacctctctcttcttggccagcgtggttccc 2930
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 180 ggcttcaggtctcaacgctctccctaacaccacctctctcttcttggccagcgtggttccc 239

Qy 2931 cccacttcacactccctctactctctcttaggactgggctgtaggagcactgccccaaat 2990
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 240 cccacttcacactccctctactctctcttaggactgggctgtaggagcactgccccaaat 298

Qy 2991 ttccctacccccaaacttccctacccccaaacttccccacacagctcccaaccctgtt 3050
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 299 ttccctacccccaaacttccctacccccaaacttccccacacagctcccaaccctgtt 358

Qy 3051 tggagctactgcagacacagaagcacaaagtgcggtttcccaagcctttgtccatctcag 3110
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 359 tggagctactgcagacacagaagcacaaagtgcggtttcccaagcctttgtccatctcag 418

Qy 3111 cccccagagtatatctgtgttgggggaatctcacacagaactcagg 3157
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 419 cccccagagtatatctgtgttgggggaatctcacacagaactcagg 465

RESULT 2
US-09-540-2108-19407
; Sequence 19407, Application US/095402108
; GENERAL INFORMATION:
; APPLICANT: Seilhamer, Jeffrey J.
; APPLICANT: Delegeane, Angelo M.
; APPLICANT: Stuart, Susan G.
; APPLICANT: Stuve, Laura L.
; APPLICANT: Mullany, Sara J.
; APPLICANT: Naughton, Rebecca E.
; TITLE OF INVENTION: POLYNUCLEOTIDES OF URINARY TRACT TISSUE
; FILE REFERENCE: PD-1037 CIP
; CURRENT APPLICATION NUMBER: US/09/540,2108
; CURRENT FILING DATE: 2002-04-03
; PRIOR APPLICATION NUMBER: 08/972,899
; PRIOR FILING DATE: November 18, 1997
; PRIOR APPLICATION NUMBER: 08/395,244
; PRIOR FILING DATE: February 27, 1995
; PRIOR APPLICATION NUMBER: 08/722,922
; PRIOR FILING DATE: September 27, 1996
; PRIOR APPLICATION NUMBER: 60/005,526
; PRIOR FILING DATE: September 29, 1995
; PRIOR APPLICATION NUMBER: 08/824,029
; PRIOR FILING DATE: March 25, 1997
; PRIOR APPLICATION NUMBER: 60/014,010
; PRIOR FILING DATE: March 25, 1996
; PRIOR APPLICATION NUMBER: 08/826,847
; PRIOR FILING DATE: April 10, 1997
; PRIOR APPLICATION NUMBER: 60/015,533
; PRIOR FILING DATE: April 10, 1996
; PRIOR APPLICATION NUMBER: 08/903,555
; PRIOR FILING DATE: July 31, 1997
; PRIOR APPLICATION NUMBER: 60/023,308
; PRIOR FILING DATE: July 31, 1996
; PRIOR APPLICATION NUMBER: 08/862,178
; PRIOR FILING DATE: May 22, 1997
; PRIOR APPLICATION NUMBER: 60/018,217
; PRIOR FILING DATE: May 23, 1996
; PRIOR APPLICATION NUMBER: 08/881,589
; PRIOR FILING DATE: June 24, 1997
; PRIOR APPLICATION NUMBER: 60/021,275
; PRIOR FILING DATE: June 25, 1996
; PRIOR APPLICATION NUMBER: 08/903,802
; PRIOR FILING DATE: July 31, 1997
; PRIOR APPLICATION NUMBER: 60/023,308
; PRIOR FILING DATE: July 31, 1996
; PRIOR APPLICATION NUMBER: 08/905,881
; PRIOR FILING DATE: August 1, 1997
; PRIOR APPLICATION NUMBER: 60/025,204
; PRIOR FILING DATE: August 1, 1996
; PRIOR APPLICATION NUMBER: 08/903,471
; PRIOR FILING DATE: July 30, 1997
; PRIOR APPLICATION NUMBER: 60/025,478
; PRIOR FILING DATE: July 31, 1996
; PRIOR APPLICATION NUMBER: 08/903,556
; PRIOR FILING DATE: July 31, 1997
; PRIOR APPLICATION NUMBER: 60/025,217
; PRIOR FILING DATE: August 22, 1996
; PRIOR APPLICATION NUMBER: 08/937,142
; PRIOR FILING DATE: September 23, 1997
; PRIOR APPLICATION NUMBER: 60/026,598
; PRIOR FILING DATE: September 24, 1996
; PRIOR APPLICATION NUMBER: 08/960,746
; PRIOR FILING DATE: October 29, 1997
; PRIOR APPLICATION NUMBER: 60/030,144
; PRIOR FILING DATE: October 30, 1996
; PRIOR APPLICATION NUMBER: 08/826,847
; PRIOR FILING DATE: April 10, 1997
; PRIOR APPLICATION NUMBER: 60/015,533
; PRIOR FILING DATE: April 10, 1996
; PRIOR APPLICATION NUMBER: 08/755,524
; PRIOR FILING DATE: November 22, 1996
; PRIOR APPLICATION NUMBER: 60/007,495
; PRIOR FILING DATE: November 22, 1995
; PRIOR APPLICATION NUMBER: 09/021,031
; PRIOR FILING DATE: February 10, 1998
; PRIOR APPLICATION NUMBER: 60/039,325
; PRIOR FILING DATE: February 13, 1997
; PRIOR APPLICATION NUMBER: 09/035,172
; PRIOR FILING DATE: March 4, 1998
; PRIOR APPLICATION NUMBER: 60/040,431
; PRIOR FILING DATE: March 5, 1997
; PRIOR APPLICATION NUMBER: 09/041,894
; PRIOR FILING DATE: March 12, 1998
; PRIOR APPLICATION NUMBER: 60/040,199
; PRIOR FILING DATE: March 14, 1997
; PRIOR APPLICATION NUMBER: 09/050,817
; PRIOR FILING DATE: March 30, 1998
; PRIOR APPLICATION NUMBER: 60/043,792
; PRIOR FILING DATE: April 11, 1997
; PRIOR APPLICATION NUMBER: 09/074,999
; PRIOR FILING DATE: May 8, 1998
; PRIOR APPLICATION NUMBER: 60/048,431
; PRIOR FILING DATE: May 29, 1997
; PRIOR APPLICATION NUMBER: 09/107,592
; PRIOR FILING DATE: June 30, 1998
; PRIOR APPLICATION NUMBER: 60/052,751
; PRIOR FILING DATE: July 1, 1997
; PRIOR APPLICATION NUMBER: 09/094,079
; PRIOR FILING DATE: June 9, 1998
; PRIOR APPLICATION NUMBER: 60/049,975
; PRIOR FILING DATE: June 13, 1997
; NUMBER OF SEQ ID NOS: 35654
; SOFTWARE: PERL Program
; SEQ ID NO 19407
; LENGTH: 283
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:

```

